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# OREGON SEED STORE

1932

U.S. DEPT. OF AGRICULTURE  
"WATCH US ★ MAR 31 1932 ★  
AND OUR SEEDS GROW"  
U. S. Department of Agriculture



234 YAMHILL ST.  
CORNER 2<sup>ND</sup>  
PHONE - ATWATER 5522  
PORTLAND, ORE.

Vegetable Seed Trials MAR 22 1932



## Giant Dahlia Flowered Zinnia Collection

### SPECIAL OFFER! 6 regular 15c pkts. for 50c

**Exquisite**—By far the most pleasing of our collection. Truly DAHLIA flowered as regards form and size. Color, light rose with center a deep rose. (Tyrian Rose).

**Meteor**—A rich, glowing deep red (Spinel Red) and the darkest of all red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds.

**Oriole**—We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. Our cultures are limited, and we can offer Oriole in small quantities only this year.

**Golden State**—A very rich orange yellow (Cadmium). Yellow is the bud, turning to an attractive orange when in full bloom.

**Crimson Monarch**—By far the largest and best of red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit.

**Giant Attraction**—A distinct shades of brick red (Spectrum Red), which carries its color well from the bud, and forms into an immense ball of color when in full bloom.

### SPECIAL COLLECTION OF ASTERS

**Improved Giant Crego**—The most beautiful and desirable aster we have ever seen; very hardy, free-flowering, and one of the best for general planting; the plant is a strong, healthy grower, and will produce 12 to 15 long-stemmed flowers of the most graceful and pleasing style. With ordinary care you

can grow flowers measuring 5 to 6 inches across, most of the handsome large aster blooms you see in the Portland flower stores of are of this kind. Pure white, shell pink, rose pink, purple, crimson, lavender and one packet of single mixed.

7 regular packets, 50c

### VEGETABLE COLLECTION NO. 1

\$1

Packet each Beans, Beets, Carrots, Sweet Corn, Lettuce, Onions Parsley, Parsnips, Garden Peas, Pumpkin, Radish, Spinach, Cucumber, Turnip, Swiss Chard.

15 regular packets, \$1.50 value, for.....

\$1

### VEGETABLE COLLECTION NO. 2

50c

Beans—Burpee's Stringless. Beets—Dark Red. Carrots—Half Long. Garden Peas—Oregon Beauty. Lettuce—New York Head. Radish—Scarlet Turnip. Spinach—Improved Thick Leaf.

7 packets, 70c value, for.....

50c

### BEWARE OF CHEAP SEEDS!

Good seed means dollars and cents to you. We offer only the best that money can buy; therefore, we cannot sell seed at 5c per packet.

**Non-Warranty**—Most failures are due to causes beyond our control, rendering it impossible for us to guarantee success; and although we are careful to supply only goods

as will, under proper conditions, produce satisfactory results, we give no warranty as to description, quality or productiveness of any seeds, plants or bulbs sent out, and will not be in any way responsible for the crop, and every order for articles named in this catalog will be executed on these conditions only.

ALL 10c PACKETS, 3 FOR 25c  
ALL 15c PACKETS, 3 FOR 40c

# Ruffled Giant Spencer Sweet Pea Collection

7 regular packets, 85c value, for 50c

**Miss California**—A most beautiful and outstanding orange-salmon cream-pink flower, blending of shades being wonderfully perfect. Large, beautiful waved form in fours on long, stout stems. Plant is vigorous grower.

**Pkt. 10c; oz. 35c**

**Hebe**—This is the largest and best rose-pink variety with great vigor and the flowers are always produced on exceptionally long stems.

**Pkt. 10c; oz. 35c**

**Mrs. Tom Jones**—Very large and of great substance, beautifully waved, usually borne 4 on a stem of great length. Color best described as bright "delphinium blue."

**Pkt. 10c; oz. 35c**

**Campfire**—The brightest scarlet sunproof sweet pea ever offered. Flowers will stand the hottest sunshine, the brighter the sun the better the color.

**Pkt. 10c; oz. 35c**

**Powerscourt**—Pure lavender self with flowers of mammoth size, yet refined and well placed on long stems. Of vigorous and free-flowering habit. The one best pure lavender. Award of merit from National Sweet Pea Society of Great Britain.

**Pkt. 10c; oz. 35c**

**Model**—A large flowered white. It is black seeded. The best white.

**Pkt. 10c; oz. 40c**

**What Joy**—Primrose yellow shading to cream.

**Pkt. 10c; oz. 35c**

## Novelties in Giant Flowering Spencer Sweet Peas for 1932

It gives us great pleasure to place before the public the fine Sweet Peas offered on this page, and we trust they will be appreciated by all lovers of this beautiful flower. These are considered by the best Sweet Pea authorities to be the best varieties grown. You should by

all means grow them in your garden this coming season. We offer the following.

**Welcome**—An outstanding novelty of real merit. The most brilliant and dazzling scarlet Sweet Pea yet introduced. Welcome is a grand flower and a glorious color, and we have not been so enthusiastic over any Sweet Pea since the introduction of the "Pinkie." The color is what most people have in mind when they think of scarlet. It is absolutely sunproof, and the wings are exactly the same shade as the standard, giving the flower its magnificent self-color effect. In the color chart the shade is referred to as Nopal Red, but "Welcome" is much more vivid in tone. The flowers are large and bold, borne on stout stems produced on a vigorous vine. For exhibition, for garden decoration, or as a cut flower, the leading scarlet variety will always be "Welcome." We quote from "The Horticultural Advertiser" reporting on the great Chelsea Show held in London, England, May 1931: "Several novelties were shown including 'Welcome,' the deepest and brightest scarlet we have seen."

**Packets contain 30 seeds each, at 25c pkt.**

**Debutante**—A lovely soft salmon shade coral. A magnificent new shade in Sweet Peas. The color of "Debutante" is difficult to describe, but the general effect is a lovely soft salmon shaded coral or peach pink. It is quite a distinct shade, with subtle tones of color all its own, which simply compel admiration. When seen as a cut flower under artificial light, the effect is enchanting, and there is a treat in store for all who grow "Debutante." Considering its color class, "Debutant" is a surprisingly strong grower, and the large, bold flowers are borne on stout stems. Light shading is necessary if the blooms are required for exhibition. **Packets contain 30 seeds each at 25c per packet.**

**Tranquillity**—A charming new pastel shade. This new pastel rosy mauve shade appealed to the Floral Committee of the British National Sweet Pea Society in the 1930 Trials and it granted an Award of Merit to "Tranquillity." "Tranquillity" is a huge flower with many blooms having duplexed standards. The ground color is cream, giving a fine soft effect to the pastel rosy mauve shade. **Packets containing 30 seeds each at 25c per packet.**

**Dolores**—Large new rose pink fancy. This novelty should be classed as a "Fancy." It is a huge flower, one of the largest we have seen. The color is clear, deep rose-pink in effect but the rose-pink has the appearance of being marbled on the cream ground. The standard is bold in its great expanse and has a clear cream base which lightens the color effect beautifully. **Packets containing 30 seeds each at 25c per packet.**





#### ASPARAGUS

Conover's Colossal .....Pkt. 10, postpaid  
Palmetto .....Pkt. 10c, postpaid

#### ARTICHOKE

Large French Green Globe...Pkt. 10c, postpaid

#### BEANS

##### Dwarf, Wax or Yellow Poddled Varieties

**Cultural Directions**—Beans are very sensitive to cold and wet, should not be planted until ground has become warm and dry. Drop seed about 3 inches apart in drills 2 to 3 feet apart and cover about  $1\frac{1}{2}$  inches deep. For succession, sow at intervals of about two weeks until the last of July. One pound of seed is sufficient for about 100 feet of drill. **Price of Beans**—Pkt. 10c;  $\frac{1}{2}$ -lb. 15c; lb. 30c; 10 lbs. \$2.50; postage extra.

**New Improved Kidney Wax**—A great improvement over the Davis Kidney Wax. Plants of erect habit, robust in growth and very prolific. Pods somewhat flattened but thick and fleshy, of rich creamy color, stringless and of excellent quality. A great bean for the market.

**New Brittle Wax**—Extremely early, heavy cropper. Handsome pods are nearly straight, long, round, fleshy, tender, "brittle" and entirely stringless at all stages of growth. Quality unsurpassed. Seed almost white, showing only a small dark dot at the eye.

**Davis White Kidney Wax Bean**—The finest yellow podded bush bean. It is very early, the plant is hardy and produces an abundant crop of long, straight, waxy white pods, 6 to 7 inches in length, very attractive and of splendid quality. The dried beans are pure white and are excellent for baking.

**Golden Wax Bean**—An old standard variety, and one of the earliest and best. Pods are of medium length, slightly curved, broad, flat, and of golden yellow color.

**Pencil Pod Black Wax Bean**—A very handsome black wax yellow podded sort. Medium early, fairly hardy, productive. Pods are long, straight, round, fleshy tender, stringless and are produced through a long season.

##### Dwarf Green Poddled Varieties

**Cultural Directions**—Same as the Dwarf, Wax or Yellow Poddled varieties.

**Burpee's Stringless Green Pod Beans**—A splendid dwarf, green podded variety for either home garden or market. The plants are large and productive. Pods are 5 to 6 inches long, cylindrical, fleshy and of fine quality. Absolutely stringless.

**Bountiful**—This is an extra early, hardy snap, which is very popular with market gardeners. It is named Bountiful because of heavy crops it produces. Vines are vigorous and upright, having large leaves. Pods are from 5 to 6 inches long, large and flat. Seeds are of medium size and of solid, rich yellow color.

##### Stringless Beans

**Black Valentine Bean**—A very hardy and productive green podded bean, popular with market gardeners. Plants are very productive.

**Dwarf Horticultural Bean**—One of the best dwarf for green shell beans for home and

market, and may be used early as a green podded snap bean.

**Refugee, or Thousand to One Bean**—A standard and very productive variety, highly esteemed for late planting for snaps and shipping, canning and pickling. Pods are cylindrical and five to six inches long.

##### Pole or Running Varieties

**Oregon Swiss Giant Pole Bean**—This new bean which we imported from Switzerland last year is by far the best bean that has ever been put on the market. We are offering it for the first time and sold in packets only. It is a quick grower, early and produces the most wonderful long, flat, meaty pods that are tender, brittle and of delicious mild, flavor when cooked; the pods are absolutely stringless, even when old. The quality is superb for canning or used fresh as a stringless snap bean as a salad bean whole or sliced, and served with dressing it is delicious. Pods measure from 10 to 12 inches in length and average about an inch in width. You should, by all means, grow a packet in your garden this year.

**Sold in packets only at 25c each**  
**Dickenson's Yount**—The mammoth 10 to 12-inch pods, picked in their prime, are entirely stringless. Quality is superb for canning or used fresh as a string bean and as a salad bean whole or sliced, and served with dressing it is delicious. The pale green pods are lightly pencilled with carmine, which disappears when cooked.

**Large pkt. 15c;  $\frac{1}{2}$ -lb. 30c; lb. 50c**  
**Kentucky Wonder, or Old Homestead Pole Bean**—Finest and most popular of pole beans. It is early and very prolific, with long, attractive, green pods of the most excellent quality. Vines are vigorous, climbing well, very productive; bears pods in large clusters.

**Prices of following Beans:**  
Packet 10c;  $\frac{1}{2}$ -lb. 20c; 1 lb. 35c

**Golden Pod Kentucky Wax Bean**—Very similar to green podded Kentucky Wonder, except that pods are a little broader and are of a golden yellow color. Very fleshy, stringless and of excellent quality.

**London Horticultural, or Speckled Cranberry**—One of the best of the Horticultural varieties as a late green shell bean. Many prefer this to the limas. Beans are large, ovate, flesh colored, splashed with red.

**Scarlet Runner Bean**—Very ornamental, bearing a profusion of bright scarlet flowers. The pods, when young, are of fine quality.

**Oregon Pole Lima**—The large, plump, white beans are of delicious quality, green, shelled or dry. They are in "prime condition" when the pods begin to turn yellow. Oregon grown acclimated seed. **Large pkt. 10c;  $\frac{1}{2}$ -lb. 20c; lb. 35c; 10 lbs. \$3.00.**

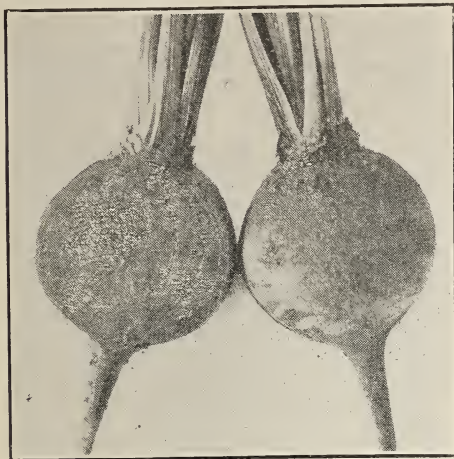
##### Field Beans

**Cultural Directions**—Culture is the same as for other dwarf Beans.

**Lady Washington**—Earlier, larger and more productive than the Navy Bean. Especially adapted to the West.

## BEETS

The seed should be sown thinly in drills from  $\frac{1}{2}$  to 1 inch deep leaving 12 inches or more between the rows, to admit cultivation. When well started, thin the plants to stand 3 to 4 inches apart in the row. One ounce will sow 100 feet of drill; 4 to 6 pounds are needed per acre in drills.



**Oregon's Improved Detroit Dark Red**

### TABLE BEETS

**Oregon's Improved Detroit Dark Red**—In this beet the bronze and red tinged tops have been eliminated. One sees how in a large field of them only the uniform gray green which renders them valuable for cooking as greens. The root itself is smooth and runs as true as the illustration here shown. But its greatest claim to superiority is the deep, uniform fresh blood color of the flesh of the root. The texture is fine grained and the flesh is crisp and sweet. The ones who grew this last season consider this the best beet ever grown.

Pkt. 15c; oz. 25c; 4 ozs. 60c; 1 lb. \$1.50

**Early Wonder**—This is a selection from the popular Crosby's Egyptian but matures a few days later. Roots are nearly globe-shaped and uniform in size. They have a small top. The skin is a fine deep red and the flesh is also a rich dark color with very little zoning. It is an excellent variety for market and home use, whether planted early for summer use or late.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 85c

**Crosby's Egyptian Beet**—A splendid extra early beet, an improvement over the old Extra Early Egyptian, being larger and of better quality. The tops are small. Roots are flattened globe shape, smooth and of bright red color. The flesh is deep red zoned with a lighter shade, and is of fine quality.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 85c

**Extra Early Egyptian Beet**—Considered the best variety for forcing. The tops are small, the roots very dark red, small, flattened on the bottom, tender and sweet.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 85c

**Detroit Dark Red Turnip Beet**—A choice variety of early turnip beet. Medium size, nearly globular in form and of deep red color. Very uniform in shape for both market and home use.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 85c

## MANGELS

### For Stock Feeding

These require the same soil and climatic conditions as sugar beets and are sown any time up to June 15. Mangel-Wurzels are very valuable for stock feeding, particularly in sections where it is too cool to grow a good crop of corn. One ounce sows 100 feet of drill; 5 pounds per acre in drills. Sown broadcast, 15 to 20 pounds per acre.

**Giant Half Sugar Mangel**—Yields as much per acre as the best Mangels, and twice as much per acre (bulk or roots) as the rich sugar beet. Roots grow very large above the ground. Smooth, creamy white in color and very nutritious. Easily pulled.

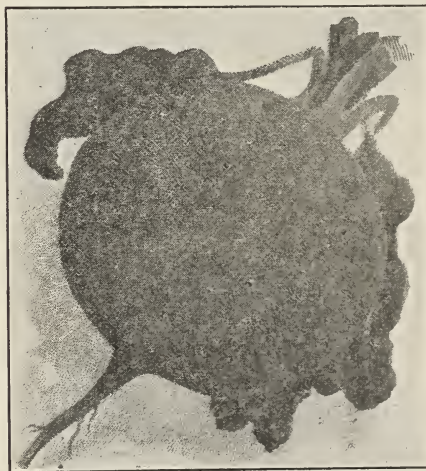
Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 60c; 10 lbs. \$5

**Mammoth Long Red**—Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the ground; roots quite regular; attain a very large size.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 60c; 10 lbs. \$5

**Danish Sludstrup**—An improved variety, considered one of the best. Awarded first class certificate. Color, reddish yellow, and of a distinct type. It is very hardy, grows well above ground; easily pulled; very nutritious.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 60c; 10 lbs. \$5



**Early Wonder**

**Golden Tankard**—An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep yellow, of fine shape, growing largely above ground, thus being easily harvested.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 60c; 10 lbs. \$5

### Sugar Beets

**Klein Wanzleben**—The most popular for table and sugar production. Tops rather large and slightly waved.

Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 75c

## CABBAGE—Best Kinds for Home and Market

Cabbage succeeds best in cool, moist climates, in rather friable loams with gravelly subsoil. Early cabbage is sown in hotbed or in house about middle of February. Late cabbage for winter use is sown during June. One ounce will produce about 2000 plants. Sow 1 ounce to 300 feet of drill. Two ounces sown in hotbed will give sufficient plants to set out an acre; sow 6 ounces in open seedbed for one acre.



**Zero Cabbage**

**Zero Cabbage (Improved Oregon Ballhead)**—Without doubt every grower who has grown our Zero Cabbage considers this the best for the Northwest. It is unquestionably the best cabbage for crating or general market purposes. The outer leaves are deep green and will hold color weeks after cutting. It is the best keeper of all and will stand more freezing weather than other varieties. It has been known to stand zero weather and came thru in fine shape. See cut. Note the uniform head. So far we have never been able to supply the demand, growers should send in orders early.

**Pkt. 15c; oz. 60c; ¼ lb. 1.75; lb. \$6.00**



**Danish Round Head**

**Danish Round Head (Select Short Stem)**—A ball shaped cabbage of great solidity. Color rich dark green, has few outer leaves and is very hardy. Our stock is Danish grown and of the same superior quality as the short-stem

Ballhead, being one of the latest keepers and best variety for early spring market.

**Pkt. 10c; oz. 35c; ¼ lb. \$1.25; lb. \$3.75**

**Earliest of All**—A new variety in this country, one of the very earliest, and in quality one of the finest of the extra early varieties. It is of medium size, very firm at the heart; with very few outer leaves and these free from coarseness. It is dark green in color with small white veins.

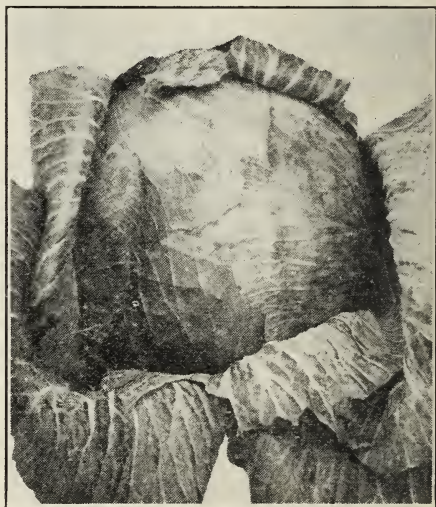
**Pkt. 15c; oz. 50c; 4 ozs. \$1.50; lb. \$5.00**

**Danish Ballhead**—Our seed is absolutely unequaled. It is esteemed for winter use because of the great solidity and excellent keeping qualities of the heads. From repeated trials, as well as from the experience of many customers purchasing our original Danish-grown seed, we know that this selected strain surpasses in even growth and heading, uniform size and solidity of heads, any other stock of so-called "Hollander Cabbage."

**Pkt. 10c; oz. 35c; 4 ozs. \$1.25; lb. \$3.75**

**Early Jersey Wakefield Cabbage**—This has long been standard early cabbage. It is one of earliest and a sure leader. Heads are of medium size, uniformly pointed, very solid; good quality. **Pkt. 10c; oz. 35c; 4 ozs. \$1.25; lb. \$3.75**

**Early Winningstadt Cabbage**—Not quite so early as Early Jersey Wakefield, but similar shape and size. Excellent home market early variety. **Pkt. 10c; oz. 35c; 4 ozs. \$1.25; lb. \$3.75**



**Copenhagen Market**

**Copenhagen Market Cabbage**—Earliest large, round headed cabbage; very large; very early; very solid. Plants are short stemmed, compact, with few outer leaves, and are vigorous. One of the best for either home or market.

**Pkt. 10c; oz. 35c; 4 ozs. \$1.25; lb. \$3.75**

**Red Rock Cabbage**—The largest and surest heading red cabbage. It is late, large, round, very solid and of attractive deep red color. **Pkt. 10c; oz. 35c; 4 ozs. \$1.25; lb. \$3.75.**

**American Drumhead Savoy Cabbage**—Best of main crop or late Savoy Cabbage. Plants are vigorous, with rather short stem, are very sure heading. Leaves are fleshy and are densely and uniformly crumpled. **Pkt. 10c; oz. 35c; 4 ozs. \$1.25; lb. \$3.75.**

**Chinese Cabbage**

**Pe-Tsai (Celery Cabbage)**—Plant forms head much like Cos Lettuce. Is of distinct flavor, mild, pleasant, served as salad or cooked like asparagus. **Pkt. 10c; oz. 35c; 4 ozs. \$1; lb. \$3.50**

## CARROTS—BEST GARDEN

**Culture**—A sandy loam is the best soil for the carrot, but any good land, if thoroughly and deeply worked will produce satisfactory crops. Sow as early in the spring as ground is fit to work, though good crops may be grown from sowing as late as June 15. For table use, sow smaller kinds in rows 16 to 18 inches apart, and for field culture prepare the ground thoroughly and sow in drills 18 to 24 inches apart. Cover one-half to one inch deep and see to it that soil is well firmed above seed.



**Improved Chantenay**

**Chantenay**—The market gardener's favorite. Tops medium size; necks small; roots tapering slightly but uniformly stump-rooted. Although this is a medium early sort it furnishes roots of usable size as early as any; is heavy cropper and is undoubtedly one of best for both market and private garden, while great productiveness makes it very desirable as a field sort. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

**Imperator**—A fine addition to carrots of the bunching class. It is somewhat longer than

Danvers Half-Long but differs from the tapering, pointed roots of most carrots of that length in that Imperator is more stump-rooted. Its color is deep orange, both exterior and interior, and runs close to stem. Core is equally deep orange and small. Its fine bunching tops and smooth, attractive, uniform roots make this variety ideal for local market sale or shipping to distant markets.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

**New Coreless**—A splendid new carrot. Larger than other early varieties. Crisp, solid, of fine flavor and almost coreless, grows smooth and uniform, a true stump-rooted type. Very



**New Coreless**

best for canning or drying as it is nearly coreless and has no tap root to trim off and waste. Holds its color and cooks quickly. The ideal carrot for home gardens.

**Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.25**

**Oxheart**—A thick carrot, 5 to 6 inches long and very blunt at the lower extremity. Grows very rapidly; roots attain a weight of more than pound. It is tender and of good flavor.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

**Danvers Half Long**—Popular on account of its productiveness and adaptability to all soil. Tops are medium size, coarsely divided. The smooth, handsome roots are of medium length tapering uniformly to blunt point; flesh sweet crisp, tender; deep orange color. Although roots are short they produce as large bulk as longer field sorts, and more easily harvested.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

## CARROTS FOR STOCK FEEDING

**Improved Short White "Mastadon"**—Ranks as field carrot, owing to enormous productiveness and ease with which it can be harvested. Roots half long, smooth, very neavy at shoulder, but tapering regularly at point; color, light green at crown, white below; flesh rich, white, solid, crisp, of excellent flavor.

**Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00**

**Large White Belgian**—This carrot grows a

third or more of its length above surface. The root will average 2 inches in diameter at the shoulder and a foot or more in length. Diameter is even throughout entire length, roots tapering gradually at base. Easily pulled in harvesting, and do not have to be dug out like most long-rooted sorts. Flesh and skin pure white, though latter is occasionally tinged green in upper portion growing above soil.

**Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00**

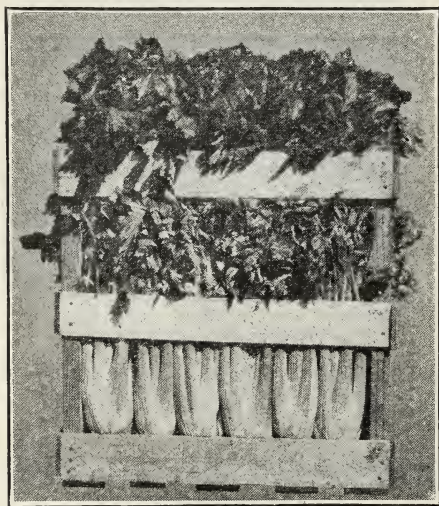
**BROCCOLI**

**St. Valentine Broccoli**—Splendid new strain of white Broccoli. Sure header; heads are large solid, white, handsome. They remain in good condition longer than other varieties. Ready for market in February. **Pkt. 15c; oz. \$1.25; 4 ozs. \$5.00; lb. \$16.00. Postpaid.**

**Italian Green Sprouting Broccoli**—New sort with much merit. Its habit of growth is much different from regular broccoli in that after main head is harvested the stem branches and produces numerous small loose heads about 2 inches in diameter which, though green in color, are nevertheless of very fine flavor and delicious quality. It can also be grown successfully in almost any section of the West since it thrives also in warm places if plenty of moisture is supplied, but should always be grown during the cool season of the gardening year. **Pkt. 10c; ¼ oz. 45c; oz. \$1.25; ¼ lb. \$3.50; lb. \$10.00.**

**BRUSSEL SPROUTS**

**Long Island Improved**—This is a fine strain of sprouts grown extensively for the market bringing a good price, especially during winter. Plants produce large crop tightly folded sprouts, delicious, sweet flavor. **Pkt. 10c; oz. 35c; 4 ozs. \$1; ½ lb. \$1.65; lb. \$3.00. Postpaid.**

**CELERY—GOLDEN PLUME**

**Golden Plume or Wonderful**—We offer re-selected seed of this splendid new celery. It resembles Golden Self Blanching in crispness and flavor, but is larger and ranker grower, earlier, blanches sooner, is more resistant to blight. **Pkt. 15c; oz. \$1.75; 4 ozs. \$5.00. lb. \$17.**

**Golden Self-Blanching, new strain**—Plants grow very tall and weigh very heavy. Stalks are wide, rather flat, while quality is extra fine, being more free of strings than old strain. **Pkt. 15c; ¼ oz. 65c; oz. \$1.50; ¼ lb. \$5; lb. \$16.**

**Golden Yellow Self-Blanching**—This is no doubt best celery for early Spring market. Plants are yellowish green color when young, but as they mature inner stems and leaves turn a beautiful golden yellow, which adds much to their attractiveness and makes the work of blanching much easier. **Pkt. 10c; oz. \$1.00; ¼ lb. \$3.50; lb. \$12.00. Postpaid.**

**White Plume**—Leading white celery. Handsome crisp sort, very easy cultivated. Naturally stalks and portions of inner leaves and heart are white. Earliest celery known. **Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00. Postpaid.**

**Giant Pascal**—Largest variety grown; fine, nutty flavor; very easy blanched. **Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.00. Postpaid.**

**INTRODUCING A NEW AND SUPERIOR CAULIFLOWER—CATSKILL**

A remarkably sure heading early Cauliflower. Is of dwarf habit with short outside leaves and similar in most respects to Early Snowball, nearly as early. Heads when ready for market are of medium to large. Curd is white, exceptionally deep and of finest quality. Will give excellent results either in home garden or for market, is superior to most seeds sold at higher prices. **Pkt. 20c; oz. \$3.50; 4 ozs. \$12.00.**

**Danish Dry Weather Cauliflower** produces a large, solid, pure white head. In all respects it is a first-class cauliflower, but is especially adapted to dry locations. It will, of course, do well in moist localities or wet seasons, yielding crops equal to any. Not suited for forcing under glass but has proven especially valuable in western states. Sure header with delicious flavor. **Pkt. 10c; oz. \$2.50; 4 ozs. \$8.00; lb. \$30.**

**Extra Early Quick Silver**—The strain imported direct, exclusively for our large market garden trade, from most famous European grower of cauliflower. Large, handsome heads 8 to 10 inches across, are pure snowy white, very close compact, and of the finest quality. **Pkt. 20c; ½ oz. \$2.00; oz. \$3.50.**

**Henderson's Snowball**—Standard early for all purposes. Heads are of medium to large solid, compact, round, very white and curd-like, and are developed very early. **Pkt. 10c; oz. \$2.00; 4 ozs. \$7.50; lb. \$25.00; Postpaid.**

**Gilt Edge**—Best and surest of all. Produces large, heavy, solid, white heads of finest quality. Undoubtedly best variety. Maturing immediately after our large Snowball.

**Pkt. 10c; oz. \$2.75; 4 ozs. \$8.50; lb. \$30**

**CELERAIC or TURNIP-ROOTED CELERY**

**Celeraic or Turnip Rooted Celery**—**Pkt. 10c; oz. 25c; Postpaid.**

**CHIVES—Schnittlauch**

**Per bunch, postpaid, 15c; Chives seed pkt. 10c**

**CHICORY—Large-Rooted or Coffee**

**Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50**

**Witloof (French Endive)**—Seed sown in spring produces long, thick roots by November. To force for use roots are dug in fall, trimming off leaves an inch above crown. Trench in a warm, dark place, covering with 6 or 8 inches of soil and top layer of fresh manure. Blanched head of leaves thus obtained resemble Cos lettuce and makes delicious salad. **Pkt. 10c; oz. 40c; ¼ lb. \$1.00**

**COLLARDS**

A loose-leaved cabbage or kale-like plant grown mostly in South, used for greens. Culture similar to cabbage. **Pkt. 10c; oz. 20c; Postpaid.**

**CRESS**

**Fine Curled Peppergrass**—Quick growing, finely cut and feathery, like good parsley; growth dwarf, compact; ornamental; crisp, pungent; very refreshing.

**Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50. Postpaid.**

**Water Cress**—Highly esteemed as a salad during spring and fall, also used as garnish for meats during winter. Seed may be started readily in pans or boxes of very moist earth, the young plants transplanted to shallow water. **Pkt. 10c; oz. 35c; ¼ lb. \$1.00, lb. \$3.50.**

**CORN SALAD**

**Large Seeded**—Sow in spring in drills 1 foot apart; will mature in 6 or 8 weeks. For winter and early spring use sow in drills in August and September. **Pkt. 10c; oz. 15c; ¼ lb. 35c**

**SWISS CHARD**

**New Savoyed Leaf "Lucullus"**—An improved variety about 2½ feet high. Heavy stalks are over an inch thick and bear for more than a foot of their length. Leaves make the finest of greens. By cutting back the leaves close to ground tender shoots spring up quickly; these or mid-rib very delicious cooked as asparagus.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1. Postpaid**

## CORN—Sweet or Table Varieties

The sweetest flavored corn cannot be purchased. It must be home-raised. This will always be so.



**Improved  
Golden Bantam**

We do not hesitate to recommend this new sweet corn to our customers. Its earliness, hardness, size and quality make it of real merit to the Western planters. It is extremely early, almost two weeks ahead of Golden Bantam. The large ears are always well filled with 12 rows of large, plump, yellow, sweet grains. Of handsome appearance and excellent quality. Remember our selected strain is Northern grown, better flavored and truer than most seed offered. **Pkt. 15c; ½ lb. 20c; 1 lb. 35c.**

### Golden West

A selection from the original strain of Golden Bantam and is earlier than Golden Bantam. Produces larger ears and has a more vigorous growth. Ears are a rich golden yellow with a quality that is ahead of other early varieties. Excellent for the market or home garden. **Pkt. 10c; ½ lb. 20c; 1 lb. 30c.**

The choicest Sugar Corn is only had where it is possible to cook it within an hour after picking.

If you wish to have Sweet Corn at its best, pick or pull the ears when the kernel may be easily punctured with the thumb nail. Arrange to make successive plantings throughout the season so as to insure a supply just in the right condition.

### Golden Early Market

A recent introduction. On account of its extreme earliness (almost two weeks ahead of Golden Bantam) it brings fancy prices. The ears are large and quality equal or superior to any other of the real early white varieties. A tall, strong grower. Very desirable on account of its earliness. **Pkt. 10c; ½ lb. 20c; 1 lb. 30c; postage paid. 10 lbs. \$2.50.**

### Early Evergreen

This fine variety is 10 to 12 days earlier than Stowells Evergreen and yields large, handsome 10- to 12-rowed ears. An excellent variety to follow the first early kinds. Near Portland it will make a late or main crop variety. **Large Pkt. 10c; ½ lb. 20c; 1 lb. 30c; postpaid. 10 lbs. \$2.50.**

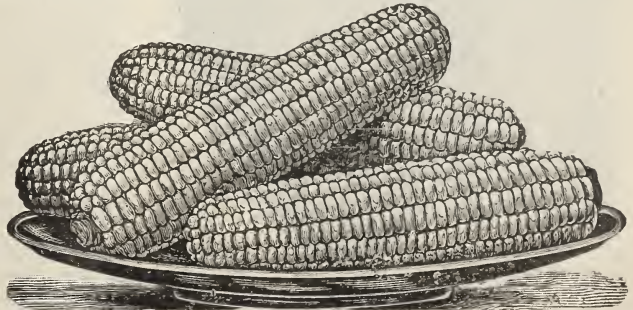
**Golden Bantam**—It is early; the stalks are sturdy and grow four or five feet high. The ears are eight rowed, six to seven inches long, and the kernels are large, exceptionally rich and sweet, and of a beautiful golden color. **Large pkt. 10c; ½ lb. 20c; 1 lb. 30c; postpaid. 10 lbs. \$2.50.**

**Country Gentlemen**—Finest of the later varieties. It does well in this locality when conditions are favorable. The ears are seven to nine inches long, the cobs very small and densely covered with irregular rows of very long, slender white grains, unsurpassed in quality. **Large pkt. 10c; ½ lb. 20c; 1 lb. 35c; postpaid. 10 lbs. \$2.50; postage extra.**

**Golden Giant**—Grown and bred in New England where it is pronounced the sweetest corn ever eaten. The stalks grow 4½ to 6 feet tall and produce two to three ears each; ears 7 to 9 inches long, with 12 to 18 rows of long, deep kernels of deep orange color. **Large pkg. 10c; ½ lb. 20c; 1 lb. 30c; postpaid. 10 lbs. \$2.50.**

**Early Minnesota**—An old standard second early sweet corn of good size and excellent quality. **Large pkt. 10c; ½ lb. 20c; 1 lb. 30c; postpaid. 10 lbs. \$2.50.**

**Stowell's Evergreen**—A standard late variety of fine quality, very tender and sugary, remaining a long time in edible condition. Ears seven to eight inches long; fourteen to twenty rowed, with very white grain. **Large pkt. 10c; ½ lb. 20c; 1 lb. 30c; postpaid. 10 lbs. \$2.50.**



# CUCUMBERS

**Cultural Directions**—Cucumbers require a warm, rich sandy loam soil. For early cucumbers the plants may be started in boxes or pots in a hotbed or in the house. They should not be set outdoors until weather is warm and settled. Form hills about 4 feet apart each way by mixing a generous amount of well-rotted stable manure or commercial fertilizer with the soil. Plant 8 to 12 seeds, or plants, in each hill. After all danger of insects is past thin the plants to 3 or 4 of the strongest in each hill. The fruit should be gathered when large enough, whether required for use or not.

## New Deltus

**New Deltus**—This remarkably fine variety is suited for growing under glass as well as outdoors. The fruits are uniformly large, from 12 to 14 inches in length, rich dark green color and blunt ends. This variety was grown by market gardeners last season with great success. If you like cucumbers and want them on your table when they are at their best, fresh, crisp and juicy, plant a few hills of this perfect cucumber. We know you will find it all we claim it is. When you have picked and eaten some Deltus write and tell us what you think of it. **Pkt. 10c; oz. 20c; 4 ozs. 60c; postpaid.**

## Pride of Oregon

**Pride of Oregon**—A really sensational novelty. In our opinion the best new cucumber ever introduced, compared with other extra long white spine cucumbers like Davis Perfect, Fordhook, Famous, etc. It is much darker in color, more uniform in size, thinner and more prolific. Don't fail to try it.

**Pkt. 10c; oz. 20c; 4 ozs. 60c; postpaid.**

**Davis Perfect Cucumber**—A very early, handsome and well shaped cucumber, bringing fancy prices in the market, and often mistaken for hot-house grown. The long, even fruits are of fine form with an intensely dark, rich green skin. It has very few seeds, and the solid white flesh is of the finest quality. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.35; postpaid.**

**Long Green Cucumber**—Vines vigorous and productive. The fruits are very long, often 12 to 15 inches when mature, slender and of beautiful dark green color. Excellent for both slicing and pickles. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.35; postpaid.**

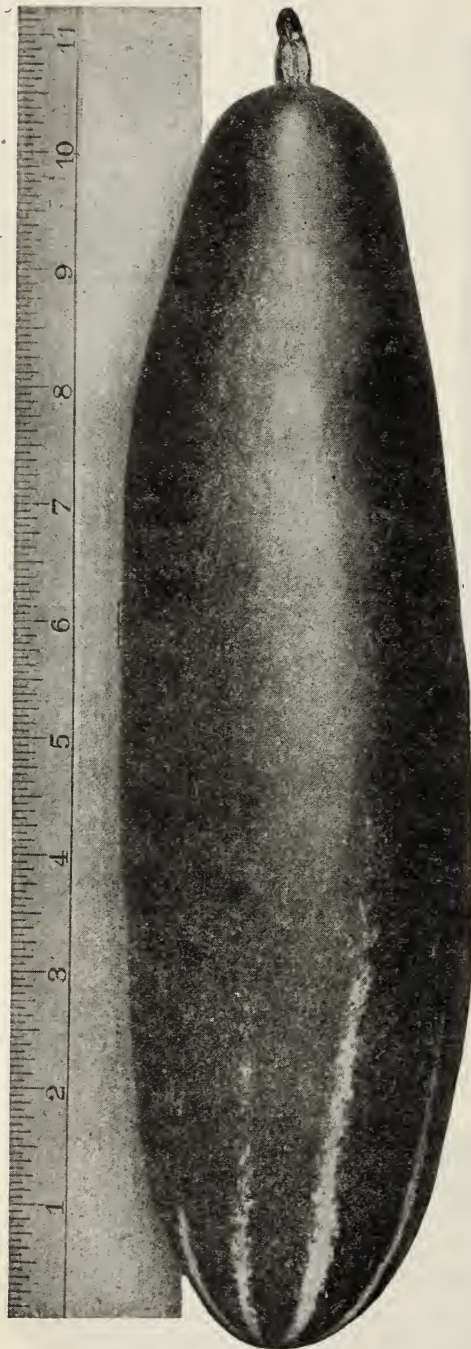
**White Spine Cucumber**—One of the best for table use. The vines are vigorous, fruiting early and abundantly. The fruits are dark green, about 7 inches long when mature, and the flesh is crisp, tender, excellent quality. **Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.35; postpaid.**

**Early Frame, or Short Green Cucumber**—An early, medium sized, bright green variety, popular for the home garden or both pickling and slicing. The vines are vigorous and productive, the flesh crisp and tender. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.25; postpaid.**

**Boston Pickling Cucumber**—A very productive variety extensively grown for pickles. The fruits are of medium size, bright green, smooth and symmetrical. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00; postpaid.**

**Lemon Cucumber**—The vines produce prolifically dainty little cucumbers resembling lemons in both form and color and having a delicious and distinctive flavor. **Pkt. 10c; oz. 25c; postpaid.**

**Japanese Climbing Cucumber**—Fruit very long and slender; the skin smooth and dark green; flesh pure white, crisp and of mild flavor. The vines should be trained over a trellis. **Pkt. 10c; oz. 15c; postpaid.**



**New Deltus**

## EGGPLANT



**Black Beauty**

The seed germinates slowly and should be started under glass, with moderately high temperature, near March 1st. When about 3 inches high, transplant carefully to the garden or field, but not until all danger of frost is over. Eggplant flourishes in most of this state and wherever there is a good warm growing season.

**Black Beauty**—Rich purple-black in color and a remarkable market variety. Is early; also a fine sort for home garden. Pkt. 10c; ½ oz. 45c; oz. 75c; ¼ lb. \$2.50; lb. \$7.50.

**New York Improved Large Purple**—The principal market variety. Plants are large and spreading; fruit large and of deep rich purple. Pkt. 10c; ½ oz. 45c; oz. 75c; ¼ lb. \$2.50; lb. \$7.50.

## ENDIVE

Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.75

An attractive so-called bitter salad plant, very popular for use during fall and winter months. Sow seed in June or July in rows 18 inches apart and thin out plants to stand 6 inches apart in the rows. For use the plants must be blanched and this is done by gathering leaves together and tying loosely at top with a wisp of straw or soft twine for about a week.

**Broad Leaved Batavian or Escarole**—This has broad thick leaves. It is used in the natural state as a salad or as a boiling-green to be cooked like spinach.

**Green Fringed**—This has very curly leaves, the mid-ribs being white. After blanching the leaves make a delicious and appetizing salad.

**Giant Fringed**—Large green fringed leaves. Popular on the market.

**White Curled**—Very attractive; frequently does not require tying up.

## KALE or BORECOLE

Very largely grown in the Southern States. May either be treated like cabbage or the seed may be sown in drills in the open ground in September. It is hardy and will withstand frost and snow.

**Dwarf Fringed Scotch**—Long plume-like leaves with edges finely cut. Pk. 10c; oz. 15c; ¼ lb. 65c; lb. \$2.00.

**Tall Green Curled Scotch**—Height 2½ feet. The finely cut leaves are pulled from the stalks as needed. Pk. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75.

### KALE FOR FEEDING

**Jersey Kale**—Large, heavy, massive plants with giant, broad leaves. It gives enormous production and is becoming very popular for feeding. This variety produces by far the largest crop. We offer seed of our own growing. Pk. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00; 3 lbs. or more 90c; postpaid.

**Giant Marrow**—Thick and fleshy leaf stalks yielding a very large supply of green food. Excellent for chickens. Pk. 10c; oz. 15c; ¼ lb. 60c; lb. \$2.00.

## KOHL RABI

Sow the seed thinly in drills where the plants are to stand and thin out to 8 inches apart. The bulbs or roots grow quickly and should be used when no larger than a tennis ball. It is best to make several sowings.

**Early White Vienna**—The standard variety.

Pkt. 10c; oz. 20c; ¼ lb. 75c  
**Early Purple Vienna**—Differs from preceding only in color. Pkt. 10c; oz. 20c; lb. 75c; ¼ lb. \$2.50.

## LEEK

Seed should be sown in June and the plants should stand 6 inches apart in rows 2 feet apart. As the plants attain full growth draw soil up about the stems as this not only blanches the stalk, but also gives a more tender quality.

**American Flag**—The favorite variety. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.35.

**Carentan**—The largest variety, although stems are not so long. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.75.

## HERB SEEDS

### Packet 10c each

**Anise**—Annual. Seeds have medicinal value.

**Balm**—Perennial. Leaves used for medicine.

**Basil, Sweet**—Annual. Culinary herb.

**Caraway**—Perennial. Seeds used for flavoring.

**Catnip**—Perennial. Used for flavoring.

**Coriander**—Annual. Seeds used for flavoring.

**Dill**—Annual. Seeds used for flavoring.

**Forehound**—Perennial. Used in cough medicine.

**Lavender**—Perennial. Leaves used for perfume.

**Sage**—Perennial. Leaves used for seasoning.

**Summery Savory**—Annual. Used for seasoning.

**Sweet Marjoram**—Annual. Used for seasoning.

**Thyme**—Perennial. Leaves used for seasoning.

## GARLIC

**Culture**—Garlic is a profitable crop if your soil is right and proper methods of culture are employed. The sets are planted in the same manner as "Multiplier Onions," dividing the little clump, planting each bullet thick end down, being careful not to bruise them as they will rot if injured. October is the planting month in Western Oregon.

A medium loam soil containing a little sand and well drained is best and commercial fertilizer should be used. Deep and thorough preparation of the soil is necessary.

Plant in rows 14 inches apart—sets 4 inches apart in the row. It requires 175 to 200 pounds to plant an acre. When approaching maturity the tops die down and are not removed but used to braid the Garlic together for hanging up and convenience in handling. An acre should produce from two to four tons. Lb. 40c; postpaid. Write for quantity prices.

## Cow or Thousand Head Kale

### Plants in Season

The great demand for this wonderful forage plant proves it to be the most valuable green feed for Pacific Coast dairy and stockmen, endorsed by agricultural colleges and government stations. Cow Kale should be grown in the same manner as cabbage. Make the rows 4 feet, plants 3 feet apart in the row. Can be set as late as July. Write for full information on planting and feeding. A quarter pound of seed will produce enough Kale plants for one acre. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c.

## LETTUCE

**Culture**—Lettuce is so extensively grown that cultural directions seem unnecessary, but we offer a few simple suggestions that may save a later disappointment, as any failure is generally blamed to the seed. This should not be, as lettuce, like many other vegetables, requires very rich soil, plenty of water, a cool growing season and intense culture to produce the best results. If the earliest varieties are planted out in the spring, and the weather turns dry and hot, they will run up to seed without heading. The same seed sown in the fall or with cooler growing weather would develop perfectly.



**Improved New York or Wonderful**

**New York, or Wonderful**—The best head lettuce for market growers. This is the mammoth head lettuce so largely grown for shipment to distant markets, arriving in splendid condition. The immense heads are solid, heavy beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp, and sweet. "New York" is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head. Plants should be thinned 12 to 14 inches. **Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.** Two-year-old seed: 1 oz. 40c; 4 ozs. \$1.00; lb. \$3.50.

**Grand Rapids**—Very popular with private gardeners and as a lettuce for green house forcing. It will stand shipping better than most curled sorts. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large bright green leaves, finely crimped and ruffled; rather thin, good flavor, crisp and tender. **Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50**

**Early Prize Head**—A large clustering, non-heading lettuce, excellent for the home garden and undoubtedly the most easily grown variety in cultivation. Leaves finely curled and crumpled, bright green tinged with brownish-red, very crisp, tender and sweet. **Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50**

**Big Boston Improved**—Plants grow large, very hardy and vigorous, leaves broad, comparatively smooth, wavy at edges, thin, very firm and crisp; color bright light-green,

slightly tinged with reddish-brown. Grown extensively in the South for shipment North in the winter. It usually heads up under cold weather conditions better than any other variety. **Pkt. 10c; oz. 15c; ¼ oz. 50c; lb. \$1.50**

**Simpson's Early Curled**—A very extensively used early loose-leaved or clustering variety. Leaves light green, slightly frilled, crisp, sweet and tender.

**Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50**

**Early White Cos**—"Salad Romaine" or Celery Lettuce. Heads tall and circular. As a salad lettuce it is highly esteemed for its fresh crispness and mild flavor. Give each plant about 4 inches space. By drawing the outer leaves together the center will blanch to a snowy white.

**Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50**

**New York No. 12 Improved**—A very popular head lettuce with the market gardener. We can recommend this as being the very best head lettuce. Heads grow to a remarkable size which are solid and heavy; heads green outside and white inside, and will stand the hot sun better than any other variety. Deliciously sweet, crisp and tender. New York No. 12 is a hardy, rapid grower, deep rooted, a slow seeder and sure to head.

**Pkt. 10c; oz. 25c; ¼ lb. \$1.00; lb. \$3.50**

**Hanson**—Improved hard heading stock. A very popular head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun.

**Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50**

**New Iceberg**—This is a beautiful lettuce, the quality of which is simply perfect. The large, curly leaves, which cover outside of the solid heads, are of a bright, light green. The unusual solidity of the heads is insured by the large, white main ribs of the leaves, each of which curving strongly toward the center,



**New Iceberg**

makes it impossible for leaves to open outward and expose the center, which will always be found crisp, tender, sweet, melting. It matters not whether grown to head in the early spring or the hottest days of summer, the leaves are always crisp and tender.

**Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00**

### Lettuce—A Prize for Poultry Keepers

**New Chicken Lettuce**—Here is a genuine lettuce which will yield as much or more chicken or rabbit feed as any "greens" plant. When once cut it starts to grow again. The leaves can be pulled off each stem like a kale. Chicken Lettuce does not make a head, but sends up a stout stalk three or four feet high, just loaded with leaves.

Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. \$1.00

## MUSKMELONS

**Culture**—Plant in hills 4 to 6 feet apart, after frost is past and ground is warm; enrich with well rotted manure; plant seeds just under surface, not too deep. One ounce to 50 hills, 2 or 3 lbs. per acre. Melons thrive best on warm, light soils, but good crops are obtained on heavy ground if rich and well drained.



**Burrell Gem**—Melons 6 to 7 in. long, 4½ to 5 inches in diameter, sharply sloping at the ends. They are quite well ribbed and covered with a fine grayish netting. The skin is a rich dark green, contrasting finely with the deep orange-salmon colored flesh, sweet, tender. Flesh is thick and firm, ripening close to the skin, leaving only a thin rind.

Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

**Netted Gem, or Rocky Ford**—An old favorite and one of most popular and best sellers among Rocky Ford melons. Fruit of Netted Gem is oval and completely covered with a beautiful lace-like netting. Flesh is very thick light green, very sweet and delicious and of superb flavor. Fruit is wonderfully uniform in shape and quality; medium in size, a great favorite. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

**Montreal Green Nutmeg**—This is known as Montreal Market. An excellent very large melon, weighing 18 to 20 lbs. each. Fruits are round, somewhat flattened at both ends, of

medium green color, heavily ribbed, and well netted. The flesh is thick and sweet.

Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

**Hearts of Gold**—This is the ideal melon for home garden. Is as round as a ball, heavily netted, very productive, strong growing and free from disease and the flesh is thick, tender, juicy and sweet. We hear some very complimentary things about Hearts of Gold.

Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

**Hale's Best Muskmelon**—No other large melon matures as early as Hale's Best. Even in a season remarkable for its coldness it was ripe in 68 days after planting. Melons are oval, inclined to produce some fruits of somewhat more elongated shape. Beautiful salmon flesh is exceptionally thick and sweet, practically melting in the mouth. Fruits are broadly ribbed and covered with a heavy netting.

Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

**Emerald Gem**—Finest for home garden on account of its high quality and extra earliness. Dark green fruit is of medium size, flattened at both ends. Flesh is thick, sweet and melting, with a rich, spicy flavor. It will ripen where others fail and nearly every melon is good. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

## MUSTARD FOR GREENS

The leaves of these varieties of mustard, as listed here, make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves. Sow seed in drills early in the spring and at frequent intervals throughout the summer to secure a constant supply of fresh greens. Mustard is hardy and is easily grown. One ounce will sow 50 feet of row.

**Fordhook Fancy**—Plants are of vigorous growth, and have beautiful dark green leaves which curl outward like fine ostrich plumes. It stands well, even during the hot summer months. Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.25. postpaid.

**Giant Southern Curled**—Large variety forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges. Hardy, vigorous, highly recommended.

Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

**White English**—Seed yellow and pungent, used for grinding and for flavoring pickles.

Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

## MUSHROOM SPAWN

With intelligent care and good spawn, mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar, under the benches of a greenhouse, or in sheds, where the temperature can be kept from 50 degrees to 60 degrees through the winter.

**Pure Culture American Spawn**—Very best spawn taken direct from the growing culture. There is no chance for any "wild" spawn to get mixed in. Bricks weigh 1¼ lbs. Brick 40c, postpaid; by express, 5 bricks \$1.75. Write us for quantity price.

## WATERMELONS

**Culture**—Watermelons thrive best on light, well-drained soils, but give good results on any good rich garden soil properly drained and cultivated. Plant after weather is settled and ground warm. Hills 8 ft. apart each way, well-rotted manure worked into each hill. 1 oz. of seed will plant 30 hills, 2 to 3 lbs. per acre.

**Cole's Early**—Northern states' favorite. As an early melon it is the standard of high quality; in sugary delicious crispness, flavor and melting tenderness, is the top-notch. It is oblong shaped, about 20 inches long, 12 inches through, skin mottled, thin brittle rind therefore not a good shipper. Flesh is rich and deliciously sweet.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$4.00**

**Kleckley Sweets**—It is, without question, the most desirable variety to plant for home use or nearby market. Fruits are very attractive, oblong in form, and have a glossy dark green skin. The rind is unusually thin, with the flesh ripening close to it. Color of flesh is a beautiful bright scarlet. Heart is broad and remarkably solid. The white seeds are placed close to the rind. The melons average 18 to 20 inches in length by 10 to 12 inches in diameter. The melons are seldom found in the market because, on account of their thin rind, they are not suited for shipping.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

**"King and Queen"**—Winter Watermelon—Average weight 25 lbs. Spherical shape, ivory shell, pink center, seeds black. A luscious,

valuable winter melon, hardy, a good drought-resister. Ripens every melon in less than 120 days. Keeps for ninety days if not bruised. Shell very hard and melon ripens to within ½ inch of it.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

**Black-Seeded Ice Cream Watermelon**—Is grown extensively in Wenatchee and Yakima sections of Washington. A splendid melon. Does exceptionally well in any soil which grows melons. Almost round, pink meated, black seeded, fine keeper. Drought-resistant, ripens early.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

**Klondike**—For genuine merit the Klondike is surpassed by no other melon. It was first introduced in 1909 and has steadily gained in popularity each year. The seeds are quite small, the color brown mottled black, while the flesh is a distinctive shade of red. The rind is dark green, and although thin, it is still a good shipper because it does not wilt. The shape is long and the average weight 20 lbs. Seed being small one pound contains as many as two pounds of most other varieties. Our stock is procured from the introducer who has kept it pure to the original type.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

**Halbert Honey**—An early maturing variety suited to the Northern states; vigorous and very productive. Melons 18 to 20 inches long. Skin dark, glossy green; flesh beautiful crimson, tender, sweet and delicious.

**Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00**

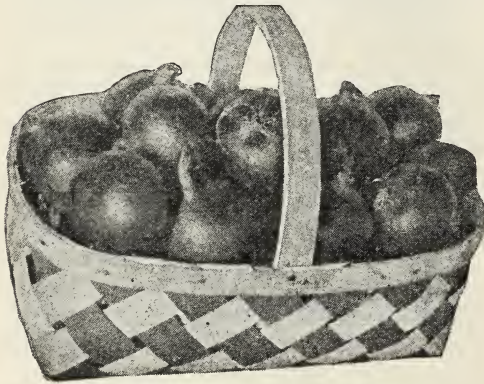
## ONIONS

Cover seed lightly. When seedlings are 3 to 4 inches tall thin out according to size of variety. Keep bed weeded and cultivate lightly during the growing season. When bulbs have reached maturity the tops will bend down and the roots must be harvested. Store

**Large Red Weathersfield**—The standard variety of red onions. Of large size, rather flat, a heavy yielder and one of the best for keeping. Good shipper. Flesh white and fine grained. Skin a deep purplish-red, smooth and glossy. This onion will produce a better crop on poor or upland soil than most varieties.

**Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00**

**Prize Taker**—This onion has become a great favorite on account of its large size and great solidity. Perfectly globe shaped, with straw-

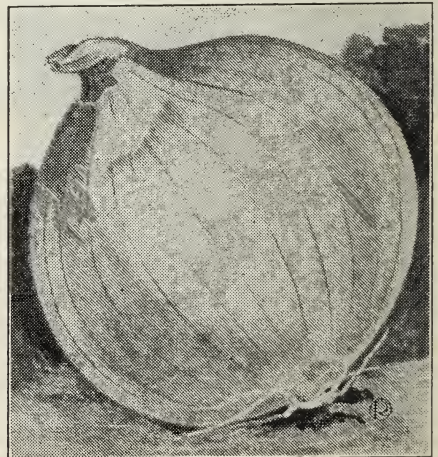


**Oregon Yellow Danvers Onion**

in a dry, frost-proof room, where fresh air circulates freely. One ounce for 250 feet of drill, 4 to 5 lbs. per acre.

**Oregon Yellow Danvers**—This variety is very extensively planted in the Northwest, particularly in Oregon. The largest crop of onions and the best keepers, bring the highest prices in Pacific coast and middle Western markets, are our Oregon Yellow Danvers. Bulbs are uniformly large, full three-quarters globe shape, small necks. It matures quite early, is the largest in size, most perfect in shape, and as a market or table onion cannot be excelled. Our seed is grown especially for us and is unsurpassed. No onion grower can afford to plant anything inferior when such seeds can be obtained at the following prices.

**Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00**



**Prize Taker**

colored skin, necks are very small and onions always ripen up hard. An excellent keeper, exceedingly fine, mild flavor and a very popular and profitable variety.

**Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.50**

## ONIONS—(Continued)

**Australian Brown**—An extra early, sure cropping variety, with long keeping qualities. A sweet, mild flavored onion, with crisp, white flesh, covered with a bright reddish-brown skin. Largely used for growing onion sets and equally good for market purposes.

Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75

**Southport White Globe**—Enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. Planted extensively by gardeners for green onions.

Pkt. 10c; oz. 35c; ¼ lb. 90c; lb. \$2.75

**White Portugal or Silverskin**—Finest flavored of all white-skinned onions. Quite early, half-globe shaped, fine cropper, very firm and an excellent keeper. Excellent for bunching green, or for pickling, if grown close so as to hold the size down. A good all-around sort.

Pkt. 10c; oz. 25c; 4 ozs. 75c; lb. \$2.50

**White Barletta—Queen**—An early white variety; prized for home gardens for pulling green or for pickling. A quick grower, fine mild flavor, excellent quality.

Pkt. 10c; oz. 20c; 4 ozs. 60c; lb. \$2.25

**Sweet Spanish**—A very large, mild, yellow globe-shaped onion. One of the best for home garden; also an early market Spanish type.

Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50

**Bunching Onion**—Best for early small green onions. Pkt. 10c; oz. 20c; ¼ lb. 75c; \$2.50

**Onions (White Lisbon)**—Clear white bunching onion which has proven to be the best for market garden trade. In appearance and taste it has been acclaimed as being far superior to all other white onions. Stems are strong, tops quite small, while white meat has good length, very hardy. Pkt. 10c; oz. 20c; 4 ozs. 75c; lb. \$2.75.

## ONION SETS

**Note**—Onion sets subject to market changes, write for quantity prices.

**Bottom Onion Sets**—Small onions grown from seed that has been sown too thickly to attain a large size. Small onions (about ½-in. in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table or bunched for the market. If left to stand they make ripe onions of the best quality, and come to maturity some 6 weeks earlier than a crop grown directly from the seed. Per lb. 20c; 5 lbs. 75c; postpaid.

**Egyptian or Perennial Tree Onion**—When once set out, without having the slightest winter protection, these come up year after year. Bottoms divide making several irregular shaped onions that are sweet and tender. The young sets grow on top of the stalks. We cannot supply these sets after March 1st.

**Shallots**—Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium size bulbs. Light brown skin, mild, white flesh. Per lb. 25c; postpaid.

## OKRA or GUMBO

**Improved Dwarf Green**—Very early, with long, green slender pods. Pk. 10c; oz. 15c; ¼ lb. 35c; lb. 95c.

**White Velvet**—The large pods are smooth or very slightly ribbed, remain tender a long time. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 95.

## PARSNIPS

**Culture**—Sow as early in the spring as the weather will admit in drills 18 inches apart and ½-inch deep, in a rich, deep soil; thin out 3 to 6 inches apart in the rows. The quality of the roots is improved by leaving in the ground over winter for spring use.

**Guernsey**—The roots are medium long, with a broad shoulder, gradually tapering downward. White skin is smooth and attractive. Fine grained, tender, and sweet flesh makes it essentially a table variety, but it is also grown for stock, on account of the immense yield.

Pkt. 10c; oz. 15c; 4 ozs. 35c; lb. \$1.00; postpaid

**Hollow Crown**—Well-known popular variety, with long, tapering roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

Pkt. 10c; oz. 15c; 4 ozs. 35c; lb. \$1.00; postpaid

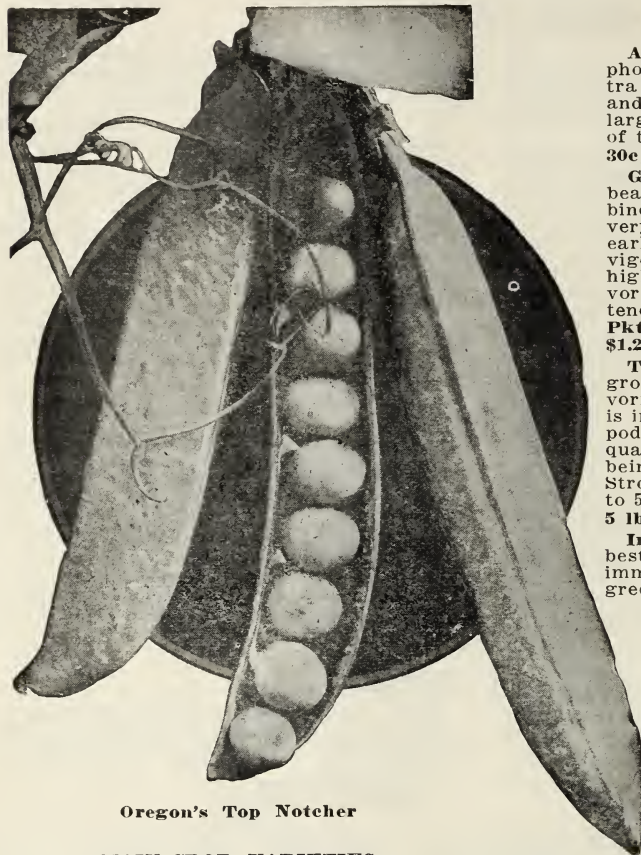
## PARSLEY



**Extra Curled Dwarf, or Emerald**—The moss-like leaves, of a handsome bright green color, are finely curled. Pkt. 10c; oz. 15c; 4 ozs. 35c; lb. \$1.00; postpaid.

**Turnip-Rooted, or Hamburg**—The edible portion is the fleshy root, which resembles a small parsnip, and is esteemed for flavoring soups, stews, etc. Pkt. 10c; oz. 15c; 4 ozs. 35c; lb. \$1.00; postpaid





Oregon's Top Notcher

## MAIN-CROP VARIETIES

Great Favorite with our Market Gardeners

## MAMMOTH PODDED PEAS

**Oregon's Top Notcher**—This new Pea is by far the largest on the market. A strong sturdy, healthy grower, vines and pods are a rich dark green. The vines are enormously productive, being completely covered with immense long pods, well filled with from eight to eleven large peas of the richest flavor. This variety grows from four to six feet high and yields a heavy crop, and is far superior to all other sorts. We are sure our customers will agree with us after growing this new pea. Pkt. 10c; ½ lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

Garden Peas are one of the most important crops and we have spared no effort to select and improve the best strains of the most profitable and satisfactory varieties. These selected strains will give you the biggest yield and the handsomest, sweetest, best flavored peas for early market or home garden. The varieties offered have proved by growing tests to be the best of their kind and class. Selected hand-picked.

USE McQUEEN'S INOCULATOR ON PEAS

## GARDEN PEAS

**Alderman**—A pea similar to Telephone, but more prolific. Vine is extra vigorous and pods are dark green and always well filled with fine, large peas. Very finest and best pea of this class. Pkt. 10c; ½ lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

**Gradus**—This early, wrinkled pea bears pods of large size and combines quality with earliness. It is very hardy, can be planted fully as early as the smooth peas, growth vigorous and healthy, vines 2½ feet high, very prolific. Quality and flavor are delicious and peas remain tender and sweet for a long time. Pkt. 10c; ½ lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

**Telephone (tail)**—Our western-grown selection of this popular favorite and standard market variety is immensely productive, extra large pods being filled with peas of finest quality, luscious sugary flavor not being excelled by any other variety. Strong, rapid grower, averaging 4 to 5 feet. Pkt. 10c; ½ lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

**Improved Stratagem**—One of the best of large podded peas, pods are of immense size filled with large, dark-green, wrinkled peas of finest quality, vine of medium height, but very stocky, with very broad, light-green leaves, bearing an abundance of large, handsome pods. Pkt. 10c; ½ lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

**Melting Sugar Edible Pod Pea**—Pods are used when half-grown and cooked in same way as snap beans. Pods are very large, and when young are stringless, very tender and finely flavored. Plants grow 4 to 5 feet high. Pkt. 10c; ½ lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

## WORLD'S RECORD

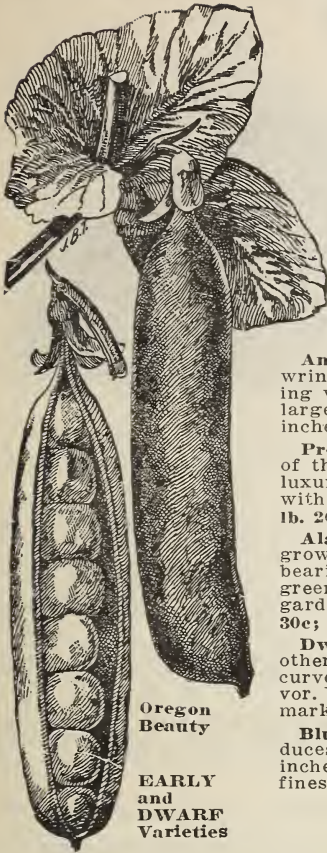
## An Excellent Early Wrinkled Variety

**World's Record** is an English variety which has proved to be perfectly adapted to the Northwest. Our seed has been grown in this locality for several seasons, and is thoroughly acclimated. The vines, the semi-dwarf, growing about 3 feet high, and the yield, size and quality of the peas are wonderful considering its extreme earliness. The pods are large, dark green, of the Gradus type, and are filled with eight or ten large wrinkled peas, sweet and of fine flavor. Pkt. 10c; ½ lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

**Hundred Fold**—Similar to Laxtonian and Blue Bantam, with darker vines and pods, has become very popular with the market gardeners. It is an Ideal Pea for those who wish large pods, and we consider it one of the best. Vines grow from 18 inches to 2 feet. Pkt. 10c; ½ lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

Market gardeners who buy peas in quantities should write us for prices, stating variety and amount wanted. Single pound prices only are prepaid. Postage extra in 10-lb lots.

**When Better Seeds Are Grown, Oregon Seed Store Will Grow Them**

Oregon  
BeautyEARLY  
and  
DWARF  
Varieties

**Oregon Beauty**—An early dwarf wrinkled pea of superior merit. The vines are rugged and productive. Pods about 4 to 5 inches long, and filled with large, tender peas of delicious flavor. Grows to a height of about 15 to 18 inches. Especially recommended for the home garden and market gardener. Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid

**Laxtonian**—A new early dwarf, robust, large podded pea of superior excellence; growth averaging 16 inches. The large pods well filled, holding 8 to 10 peas. Laxtonian is so highly recommended that you should give it a trial.

Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid

**Little Marvel**—Splendid new dwarf pea for home or market. The dwarf, bushy vines, averaging 15 inches, are loaded with firm square-ended pods  $2\frac{1}{2}$  to 3 inches long, tightly filled with plump, luscious, deep green peas. Little Marvel is as early as American Wonder, fully equals the superb quality of Nott's Excelior, and far outyields these two popular sorts. Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

**American Wonder**—One of the most popular and best of the early wrinkled sorts. A great favorite for family use. Has stout, branching vines, covered with well-filled pods containing seven or eight large, exceedingly sweet, tender and well-flavored peas. 10 to 12 inches high.

Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid

**Premium Gem**—Our select strain of this splendid variety is one of the earliest and best of the dwarf garden peas. The vigorous, luxuriant vines average about 15 inches high and are heavily loaded with well-filled pods of rich, fine-flavored sugary peas. Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid.

**Alaska or Earliest of All**—A smooth, blue pea, of even, vigorous growth and extra early maturity. Vines 2 to 3 feet high, unbranched bearing 4 to 7 long pods, which are filled with medium-sized, bright green peas of excellent flavor. A great favorite with our market gardeners for fall or early spring planting. Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lbs. \$1.00; postpaid.

**Dwarf Gradus**—Produces more pods, and larger pods than any other early dwarf pea. The flavor is exceptional; pods are slightly curved and contain an average of 8 to 9 peas of finest marrow flavor. Vines are stout, 18 to 24 inches high. A fine variety for home or market garden.

Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 30c

**Blue Bantam**—The vines measure about 15 inches high and produces freely the bluish-green pods. The pointed pods run 4 to  $4\frac{1}{2}$  inches long and are always well filled with 8 to 10 large peas of finest flavor.

Pkt. 10c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lbs. \$1.25; postpaid

## PEPPER

### OREGON SWEET WONDER

Fruits dark green, smooth in surface, square in cross section and very large, usually about 4 inches across and  $4\frac{1}{2}$  to 5 inches in length.

In addition to the striking outward appearance, it has the thickest flesh of any pepper in cultivation. The flesh is usually  $\frac{1}{4}$ -inch thick and a thickness of  $\frac{3}{8}$ -inch is common. It is about in season with other large fruited sorts, but produces marketable sized green peppers nearly as early as the earliest varieties. This will be found a very desirable sort for the home garden and an exceptionally profitable one for commercial growers, especially those who ship to distant markets. Pkt. 10c;  $\frac{1}{2}$  oz. 60c; oz. \$1.00;  $\frac{1}{4}$  lb. \$3.50; lb. \$12.00.

**Chinese Giant**—Rich, deep green when immature, bright scarlet red when ripe. Flesh thick, mild and sweet, exceptionally desirable for use in salads and also one of the best varieties for stuffing. Plants vigorous and very

productive, peppers often 5 inches in diameter, almost square in shape, divided into 4 sections. Our seed of this variety grown from especially selected stock. Pkt. 10c; oz. 75c;  $\frac{1}{4}$  lb. \$2.50; lb. \$8.00; postpaid.

**Red Chili**—A rather small, bright-red variety, about 2 inches long, and pointed. The pods are used in making Chili sauce, and very pungent and hot. Pkt. 10c; oz. 80c;  $\frac{1}{4}$  lb. \$2.70; lb. \$8.00.

**Long Red Cayenne**—Strong, pungent variety having long, pointed fruit, which is bright scarlet when ripe. Well known, popular variety. Pkt. 10c; oz. 80c;  $\frac{1}{4}$  lb. \$2.70; lb. \$8.00.

**Harris Early Giant**—Earliest of peppers and exceedingly mild and sweet. It will mature ripe peppers two weeks ahead of Chinese Giant. Ideal for those localities having short seasons and is also valuable for market when ripe, red peppers are in demand. Averages about  $3\frac{1}{2}$  inches long and  $2\frac{1}{2}$  inches thick. Pkt. 10c;  $\frac{1}{2}$  oz. 60c; oz. \$1.00;  $\frac{1}{4}$  lb. \$3.00.

## PUMPKIN

**Winter Luxury**—Enormously productive variety of medium size and superior keeping qualities. Of rounding shape, somewhat flattened; golden orange color with heavy netting. Rich, thick, golden flesh, sweet and tender. The best pumpkin for pies. Pkt. 10c; oz. 15c; 4 ozs. 40c; lb. \$1.00.

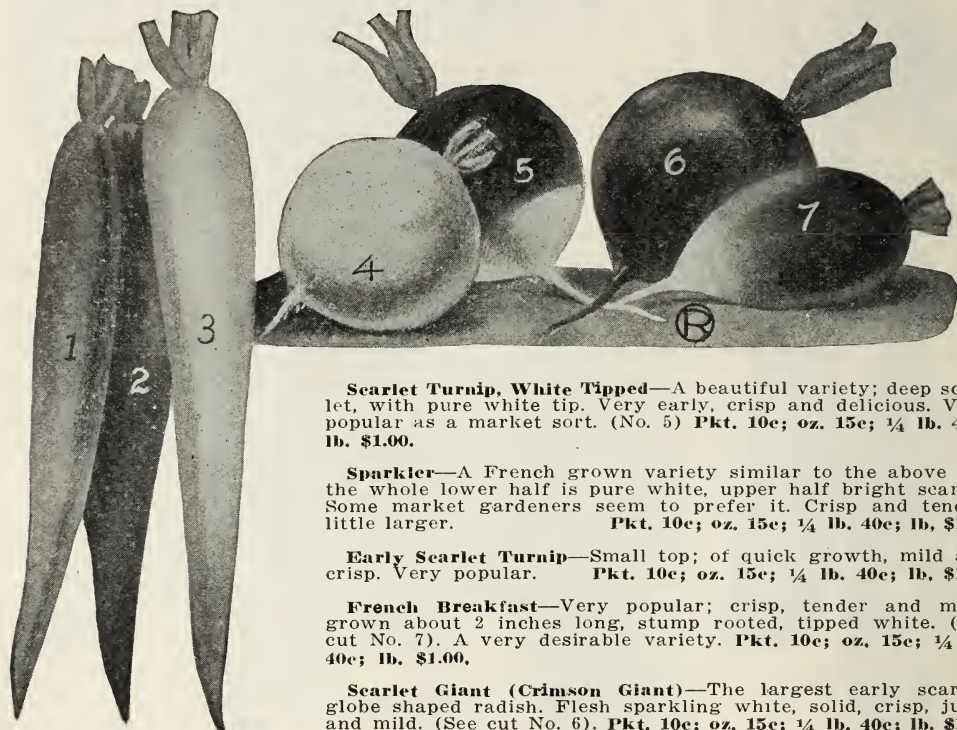
**Small Sugar**—The New England pie pump-

kin. Small, bright orange color. Flesh deep, yellow, fine quality, matures early. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00; postpaid.

**Connecticut Field**—A fine, large, orange, colored variety used for field culture and stock feeding. Skin is smooth and ribbed and the flesh is brittle and sweet. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00; postpaid.

**"Use Morcrop" On All Vegetables**

# RADISHES



**Scarlet Turnip, White Tipped**—A beautiful variety; deep scarlet, with pure white tip. Very early, crisp and delicious. Very popular as a market sort. (No. 5) Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

**Sparkler**—A French grown variety similar to the above but the whole lower half is pure white, upper half bright scarlet. Some market gardeners seem to prefer it. Crisp and tender, little larger. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

**Early Scarlet Turnip**—Small top; of quick growth, mild and crisp. Very popular. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

**French Breakfast**—Very popular; crisp, tender and mild; grown about 2 inches long, stump rooted, tipped white. (See cut No. 7). A very desirable variety. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

**Scarlet Giant (Crimson Giant)**—The largest early scarlet, globe shaped radish. Flesh sparkling white, solid, crisp, juicy and mild. (See cut No. 6). Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.00

There are three distinct classes of radishes—Spring radishes, Summer radishes, and Winter radishes. Every complete garden should have some of each class.

The spring radishes can be grown almost all the year around, and are important as a forcing crop during the winter. They mature in the open ground in from 25 to 40 days, depending on the variety and weather. They develop best during the cool season. Light sandy soil, rich in organic matter, is essential to produce crisp and tender radishes. Plant as early in the spring as possible, and make succession planting every ten days. Where the summers are hot, sow until the middle of May, then stop, but make three more sowings during August. Sow the seed thinly in shallow drills. One ounce is sufficient for

100 feet of drill; 8 to 10 pounds per acre sown in drills.

**White Icicle**—It is not only crisp and tender when young, but retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sort. (See cut No. 3).

**Long Bright Scarlet, White Tipped**—The brightest and handsomest long scarlet radish. Of excellent quality. (See cut No. 1).

**Early Snowball (Model White Box)**—Early, clear white, solid, juicy, crisp, tender and unsurpassed in flavor. (See cut No. 4).

**Long Scarlet**—Grows perfectly straight and smooth, 6 to 7 inches in length, skin scarlet, very thin, the flesh crisp, brittle and of delightful flavor. (See cut No. 2).

## WINTER RADISHES

The merits of Winter Radishes are little appreciated. These grow to large size and keep well for winter and spring use. Sow seed in July and August. Early planting is not advisable.

**California Mammoth White China Radish**—A very large winter radish, sometimes growing eighteen inches long. Pure white, very solid, crisp and tender.

**China Rose Winter Radish**—A winter growing 4 to 5 inches long.

**Round Black Spanish Radish**—The roots are round or top-shaped, 3 to 4 inches in diameter. The skin is black, the flesh is white.

**Long Black Spanish Radish**—One of the largest and hardest of winter radishes. The roots grow 7 to 9 inches long.

**Sakurajima Radish**—The mammoth radish of Japan, the largest in cultivation often weighing 20 to 30 pounds. The flesh is very solid, firm and brittle. Can be eaten raw or cooked as a vegetable.

PRICES ON THIS PAGE AS FOLLOWS: PKT. 10c; OZ. 15c; ¼ LB. 40c; LB. \$1.00; POSTPAID



### Earliest of All

**"Earliest of All"**—Its quick growth and early maturity combined with its excellent cooking qualities, makes it very valuable. Summer drought does not affect it, for its growth is complete before it can be injured. Plant early to obtain large size. Ready for table nine weeks from planting, and fully matured in 12 weeks. **5 lbs. 40c; 10 lbs. 75c.**

**Netted Gem**—Also known as "Russet Burbank," "Yakima Gem," etc. A splendid main-crop variety, with a russet or netted skin, flesh white, excellent quality, shallow eyes. We offer healthy, heavy producing stock. **5 lbs. 40c; 10 lbs. 75c; quantity price on request**

**Early Rose**—This variety has been a great favorite for many years and many growers still claim that it has never been excelled in

quality and productiveness. Potatoes are long in shape, good size and light pink in color at the bud end. They cook mealy and are of the finest flavor. **1 lb. 10c; 3 lbs. 25c.**

**American Wonder**—One of the best all-around white potatoes, very popular for early main crop. A strong grower and a great producer, tubers white, generally very smooth and uniform in size, elongated, of excellent quality. Ready to use quite early. **5 lbs. 40c; 10 lbs. 75c; quantity price on request.**

**OTHER VARIETIES**—If you want any other kind, state variety and quantity wanted and we will quote prices on such market stock as is obtainable.

**Prices on potatoes are F. O. B. Portland.** Add postage if wanted by mail.

## RHUBARB or PIE PLANT

**Per pkt. 10c; oz. 20c; 2 ozs. 35c; ¼ lb. 50c; 1 lb. \$1.50.**  
**Rhubarb Roots**, by express not prepaid,

**10c each, \$1.00 per dozen**, by mail, prepaid, **15c each, \$1.50 per dozen**. Write for special quotations on large quantities.

## SALSIFY or VEGETABLE OYSTER

**Sandwich Island Mammoth**—This grows uniformly to an extra large size, averaging fully double the size and weight of roots of older variety. Roots, notwithstanding their extra

large size, are of very superior quality and delicate in flavor. **Pkt. 5c; oz. 10c; ¼ lb. \$2.50; postpaid.**

## SPINACH

**King of Denmark Spinach**—This new spinach is a splendid kind for both the home garden and for market, for it stands from a week to 2 weeks longer before going to seed than any other kind. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 60c; postpaid.**

**New Giant Smooth Leaf**—The largest and the most productive of any sort we have tried. Plants 20 inches across are not uncommon on good soil. The leaves are simply immense, of deep green, very heavy, brittle and tender. It is very slow to seed and is especially valuable for spring, summer and fall cutting.

**Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c**

**New Zealand Spinach**—A distinct type of spinach and unlike other spinach, it thrives during hot weather. The plant is very large and branching, and the seed should be sown in hills not less than 2 feet apart each way, 3 to 4 seeds to each hill. **Pkt. 5c; oz. 10c; ¼ lb. 35c; 1 lb. 95c.**

**Thick Leaved Improved Spinach**—Medium early rapid growing variety, forming large,

thick, slightly crumpled, deep green leaves of good quality. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 60c.**

**Prickly Winter Spinach**—A late, hardy variety, usually sown in fall for winter use. Very long standing. Leaves of medium size, thick and dark green. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 60c.**

**Amsterdam Giant**—This variety is very popular and we have a fine strain of Holland Northwest grown seed. The leaves are broad and smooth and of medium deep green. It will stand more cold weather than any other sort we have tested, and is very popular for late fall plantings which are to remain over winter for early spring cutting. **Pkt. 5c; oz. 10c; ¼ lb. 30c; 1 lb. 75c.**

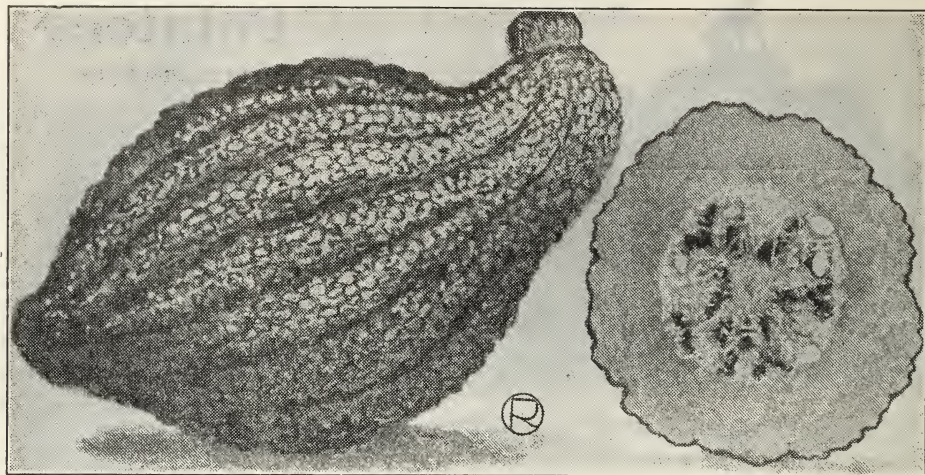
**Longstanding**—A comparatively late variety, but remaining a long time in condition for use. The plant is very large, with large, smooth, dark green leaves. **Pkt. 5c; oz. 10c; ¼ lb. 25c; 1 lb. 60c; postpaid.**

## TOBACCO

**Culture**—Practically same as cabbage.

**Havana or Connecticut Seed Leaf**—Both

good, hardy varieties for general planting here. **Pkt. 10c; oz. 75c.**



True Hubbard

The squash is one of the most nutritious and valuable of all garden vegetables. Summer varieties come to the table early in the season, while winter sorts can be had in perfection from August until summer varieties are again in condition. Few farmers appreciate the value of winter squash as food for stock. We think an acre of squash, costing no more to cultivate and much less to secure, will give usually as much food available for feeding stock as an acre of corn, and we strongly urge our readers to try a "patch" for this purpose.

**Culture**—Squash plants are very tender and sensitive to cold, and planting must be delayed until warm weather. The general methods of culture are the same as those given for cucumbers and melons, but squash is less particular as to soil. The summer varieties should be planted 4 to 6 feet apart each way, and winter sort 8 to 10. Three plants are sufficient for a hill. In gathering the winter sorts care should be taken not to bruise or break the stem from the squash as the slightest injury will increase the liability to decay.

## Summer Varieties

**New Squash Table Queen "Des Moines"**—We can truly say that the height of squash quality is still unknown to one who has not eaten half a Table Queen, baked and buttered. The enthusiasm of customers entitles it to the place among squashes accorded to "Golden Bantam" in the sweet corn. In size Table Queen equals a fair sized husked cocoanut, and a half, baked, serves one person amply. This avoids the waste often resulting from the use of larger varieties. The shell is unusually thin and it does not require over 20 minutes for baking or boiling. A good way to prepare it is to cut in half, place a lump of butter on one half, top with the other and then bake whole. This squash is ready before the Hubbards and yet stores equally well. The

color is dark green, changing to bright golden after picking and storing. The meat is dry and mealy. It yields enormously—a few hills furnishing an ample supply for a good sized family. **Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50**

**White Bush**—The best summer sort for the home garden or market, very productive and good size. **Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.25**

**Giant Summer Crookneck**—Our strain of this popular squash produces fruit nearly double the size of the old standard "Crookneck." The plants are healthy, husky and compact, they produce in quantity fruit that is heavily warted and true to type. The flesh is a rich golden yellow, the quality and flavor of which is the very best. **Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.25**

## Winter Varieties

**Improved Hubbard**—The best and most popular variety on our list. Rind dark green, warty and very hard. Flesh light orange, very dry sweet and rich flavored. Has no superior. Long keeper. **Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.25**

**Mammoth Chili**—Largest of all squashes, growing to an enormous size, often weighing over 200 pounds, while its rich fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding.

**Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.25**

**Banana Squash**—Grows from 1 to 2 feet in length. Flesh firm and solid, of beautiful orange-yellow, and excellent quality. Rind or shell smooth and grayish-green color. Resists heat of the sun better than the Hubbard and because of its excellent flavor and splendid keeping qualities, remaining in good condition from one season to another, is already superseding that variety in many localities.

**Pkt. 10c; oz. 15c; ¼ lb. 50c; lb. \$1.50**

**Golden Hubbard**—The same in size, shape and quality as the well-known Hubbard Squash, except that it is bright red or golden color, and somewhat earlier. Good Keeper.

**Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.25**

**Boston Marrow**—Skin yellowish, very thin, flesh dry and fine grained, of unsurpassed flavor. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00**

**Sibley or Pike's Peak**—Shell smooth, thin and of a pale green color, the flesh is thick, solid, deep orange color, very dry, fine grained. **Pkt. 10c; oz. 15c; ¼ lb. 45c; lb. \$1.25**

**The Delicious**—For quality. A squash of exceptional merit for table use. A fall and winter variety, but is fine for all seasons, though its best quality is not attained until winter. The fruit varies in shape and size, weight ranging from 5 to 10 pounds each. The rind is very thin, uniformly green, and the flesh is very thick and dark orange color. **Pkt 10c; oz. 15c; ¼ lb. 45c; lb. \$1.75.**

## TOMATO

**Culture**—Sow early in hotbeds, and as soon as they have four leaves transplant into shallow boxes. Harden off, and set out as soon as danger of frost is past. An ounce of seed will produce 3000 to 4000 plants. If blight appears use "Bordeaux," but it is better to use a preventative before blight strikes the plant, and is a control measure for flea beetles, spraying the under side of foliage. The newer types of hardy, prolific tomatoes are better adapted to the cool coast climate than the older sorts, splendid crops now being grown where heretofore it was thought tomatoes would not thrive. A good plan is to try several varieties and find which is best suited to your special conditions.

**The New Marglobe Tomato**—This new rust resisting variety developed by the United States Department of Agriculture is spoken of throughout the country as the finest tomato ever introduced, being particularly desirable in sections subject to tomato diseases. A scarlet variety ripening well up to the stem, of perfect globe shape and splendid quality. The vines are strong and vigorous and very productive. Ripens a few days later than Bonny's Best or early Jewell. The market gardeners consider this to be the best variety ever introduced and will bear until frost. **Pkt. 10c; ½ oz. 40c; oz. 75c**

**"Burbank" Tomato**—The originator describes it as the early, smoothest, most productive and best early tomato, color bright crimson, thick, smooth and firm with few seeds. Unusually heavy and of the finest quality. Keeps well, a good shipper, a prolific, continuous bearer, has the unusual and remarkable feature of being easily peeled, the skin slipping readily from the rich, firm flesh. Resistant to wilt and other diseases. **Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$3.75**

**Chalk's Early Jewell**—Large, bright red, smooth, round fruits, colored evenly up to

the stem, solid, almost seedless, fine flavor. Vines equal or better than Earliana. We recommend as an early tomato for market or home garden, it has given us satisfaction under the varying conditions of soil and climate in the Northwest. **Pkt. 10c; oz. 40c; ¼ lb. \$1.25 lb. \$3.75.**

**Beefsteak Tomato**—This is largest of all bright red tomatoes. In many ways is similar to Ponderosa, but color of skin is a rich scarlet red. Mammoth fruits are more or less ribbed. Enormously productive. **Pk. 10c; oz. 45c oz. 65c; 4 ozs. \$1.95; ½ \$3.55; lb. \$6.50.**

**Oregon's Favorite** (Market Gardeners' Special)—Our special strain of this first early tomato is not only earlier than ordinary Earliana, but fruit is perfectly smooth, very solid, ripens bright deep scarlet right up to stem. Vines are vigorous growing and very productive. Growers find its extra early fruit brings very good prices in market. **Pk. 10c; oz. 75c; ¼ lb. \$2.20; lb. \$8.50.**

**Bonny Best**—Has given splendid results wherever tried and being early, hardy, very productive, recommend for outside planting wherever tomatoes can be grown. Good forcing variety. Fruit smooth, round, slightly flattened, solid, bright scarlet. Quality excellent. **Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$3.75**

**Spark's Earliana**—One of earliest tomatoes, large, uniform size and beautiful red color. Ripens thoroughly all over, coloring up perfectly. Almost seedless and solid. A vigorous grower, heavy bearer, continuing until frost. Succeeds everywhere, and especially recommended for this coast. **Pkt. 10c; oz. 45c; ¼ lb. \$1.25; lb. \$3.75.**

**Ground Cherry or Husk Tomato**—Grows to great perfection under ordinary culture, yielding abundantly, very much prized for preserving, should be in every garden. **Pkt. 10c; oz. 50c; ¼ lb. \$1.75**

## VEGETABLE PLANTS

We grow large quantities of vegetable plants, and can supply all the kinds listed below in their proper season, in most any quantity. We have made arrangements this year so that we can supply all vegetable plants in two grades. If you want a quantity of plants write us early.

Transplanted plants are much stronger and better rooted, and are well worth the price especially in the early part of the season. We can supply most any of the leading sorts. **No plants sent C. O. D.**

**All prices are subject to crop conditions and market changes.**

**Cabbage**—Transplanted and "pulled" plants in all standard varieties. Early and late at seasonable times. **Postpaid Not Postp'd**

	Doz.	100	100	1000
Transplanted .....	\$ .25	\$1.25	\$1.00	\$8.00
Not transplanted .....	.15	1.00	.75	6.00

**Kale**—When you order Kale be sure to state whether you want garden kale or cow kale. **Postpaid Not Postp'd**

	Doz.	100	100	1000
Thousand Head .....	\$ .20	\$1.25	\$1.00	\$6.00
Cow Kale .....	.25	1.50	1.25	10.00

**Special prices on large lots in season.**

**Broccoli**—Our famous "St. Valentine" Broccoli should be in every garden. Broccoli is a winter cauliflower, very hardy and of finest quality. "St. Valentine" is best variety, plants can be set after June and are ready to use in March. **Postpaid Not Postp'd**

	Doz.	100	100	1000
Broccoli .....	\$ .80	\$1.50	\$1.25	\$12.00

Write for prices on large lots. We will grow them to your order.

**Sweet Potato Plants**—Sweet Potatoes can be successfully grown in most sections. Plants should be set out after the ground is warm. Rich, sandy bottom land is best, but any good garden soil will give good returns.

Seasonable delivery ..	Doz.	100	Doz.	100	1000
	\$.50	\$2.00	\$.35	\$1.75	\$12.00

**Cauliflower**—Cauliflower seed is scarce and high in some varieties and plant prices subject to change. **Postpaid Not Postp'd**

	Doz.	100	100	1000
Early varieties, transp'd..	\$.30	\$1.75	\$1.75	\$12.00

Not transplanted .....

Late kinds, transplanted... Write for prices

**Celery**—Fine, healthy plants in early winter varieties furnished in season or grown to order. To succeed with celery keep the plants growing constantly while young—if they "stand still" they are liable to run up to seed later. **Postpaid Not Postp'd**

	Doz.	100	100	1000
Transplanted .....	\$.30	\$1.25	\$1.00	\$8.50

Not transplanted .....

**Tomatoes**—Tomato plants should not be set out before weather is settled and ground warm, unless they are protected from frost. If you do not know what variety is best, tell us, we will give you the right one. **Postpaid Not Postp'd**

	Doz.	100	100	1000
Transplanted .....	\$.30	\$1.50	\$1.25	\$10.00

**Brussels Sprouts**—These are very hardy and should be grown the same as kale or broccoli. **Postpaid Not Postp'd**

	Doz.	100	100	1000
Brussels Sprouts ...	\$.25	\$1.50	\$1.25	\$10.00

**For early outdoor planting use Germaco Hotcaps**

## TURNIPS

**Culture**—For early use sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart. As the seed is very fine, it should be covered but slightly, except in very dry weather. For fall and winter use, sow early kinds during July, August and September.

### EARLY GARDEN TURNIPS

**Early Purple Milan**—This variety is ready for table sooner after planting than any other yet introduced. Top small, erect, strap-leaved, bulb a deep purple above, white underneath, flesh white, firm and delicate. **Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.25.**

**Early White Milan**—Same as Purple Top Milan, but pure white, sweet and tender, best early market variety. **Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.25.**

**Early White Flat Dutch**—One of very best and most universally grown. Small, erect top, round, flat; flesh white, firm but very tender and sweet. Quick growth, it is soon ready for the table and keeps well. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.**

**Early Snowball**—Early round turnip, maturing in 7 weeks, is of perfect form, snowy whiteness, crisp, solid, fine flavor. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.**

**Golden Ball**—Undoubtedly one of the most delicate and sweetest yellow fleshed turnips yet introduced. Not of large size, but firm, hard and most excellent flavor. Keeps well and is superior as a table variety. Is extensively used by market gardeners. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.**

### MAIN CROP TURNIPS

**Bortfield (Long Yellow)**—Sometimes called long yellow Cow Horn. Pure yellow except a little shade of green at the top. Grows part out of the ground and is of very rapid growth a heavy cropper and of delicious flavor. It has proven itself to be far superior to any turnip ever introduced for stock feeding as it is a heavy yielder and relished by all stock. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; postpaid.**

**Cowhorn**—Sometimes called long white. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is

delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon, an immense yielder. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Pomeranian White Globe**—One of the most productive kinds, and in good, rich soil, roots will frequently grow to 12 pounds in weight. It is of perfect globe shape, skin white and smooth, leaves dark green and of strong growth. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Purple Top White Globe**—A large, globe-shaped variety, purple above ground. It is handsome and of excellent quality, recommended both for family and garden and field crop. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Large White Norfolk**—A white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy and may remain in the ground all winter. Yields very large crop. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**White Egg**—Is perfectly smooth, of a pure, clear white, growing half out of the ground, and at times to the size of a Ruta Baga, being a very choice kind for table use, of excellent flavor, sweet and mild, pulls clean from the ground, thin, snow-white skin. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Yellow Aberdeen**—Round, medium size, light yellow. Produces a large crop, is hardy and keeps well, flesh very firm but tender and sweet. A great favorite with the dairymen. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

### TURNIPS—Ruta Baga or Swede

For feeding stock in fall and winter there is nothing superior to turnips or ruta bagas. They are much liked by all kinds of stock and serve to keep them in good condition. A profitable crop.

**Improved American Purple Top**—The leading variety, large, immense yielder. Superior in every way. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**Monarch or Tankard**—Very solid, fine grained, of fine flavor, grows well out of the ground and yields large crops. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

**White Sweet Russian**—Excellent for table or stock. Very large size, white, solid, sweet and rich, keeps well. **Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.**

## Special Collection Vegetable Seeds

### Collection No. 1

85c

Packet each Beans, Beet, Carrot, Sweet Corn, Lettuce, Onions, Parsley, Parsnip, Garden Peas, Pumpkin, Radish, Spinach, Tomato, Turnip, Sweet Peas.

15 packets in all, value \$1.45, for.....

85c

### Collection No. 2

45c

Beans—Burpee's Stringless. Beets—Dark Red. Carrots—Half Long. Garden Peas—Oregon Beauty. Lettuce—New York Head. Radish—Scarlet Turnip. Spinach—Improved Thick Leaf.

7 packets in all, value 65c, for.....

45c

**NOTE**—The packets in the above Collection are regular FULL-SIZE PACKETS of our High-grade Seeds as listed in the body of our catalog. The saving on these Collections is possible for the reason that same are packed in advance of the shipping season.

THE ABOVE PRICES POSTPAID

# Oregon SEED store FLOWERS



## ASTERS

One of the easiest and most satisfactory summer and fall flowers to grow. We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

### Heart of France

Heart of France opens red as the ruby, and retains its remarkable beauty to the very end. Flowers are large and full. Plants of branching type and of very robust habit. Stems long.

**Packet 10c**

**Improved Giant Crego**—Most beautiful and desirable aster we have ever seen, very hardy, free-flowering and one of the best for general planting, plant is strong, healthy grower, and will produce 12 to 15 long-stemmed flowers of most graceful and pleasing style (see cut). With ordinary care you can grow flowers measuring 5 to 6 inches across. Most of the handsome large aster blooms you see in the Portland flower stores are of this kind. Pure white, shell pink, rose pink, purple, crimson, lavender or mixed. **Pkt. 10c; ½ oz. 35c**

**Special**—1 packet of each 6 colors only 35c

### ALYSSUM

One of the most popular hardy annuals, used especially for edging and also valuable for cutting on account of fragrance of flowers.

**Sweet**—Pure white; 6 inches; June to November. **Pkt. 10c**

**Little Gem**—The dwarfiest and best for design bedding, plants very compact, bushy and grow only 3 or 4 inches high. **Pkt. 10c**

**Lilac Queen**—Dwarf, compact, lilac flowers. **Pkt. 10c**

**Procumbens (Carpet of Snow)**—A new and very select strain, carefully selected. Plants very spreading and only about 2 inches tall. Blooms are massed completely hiding foliage. **Pkt. 15c**

**Saxatile Compactum (Gold Dust)**—Hardy perennial, yellow flowers, April to June, height 9 to 12 inches. **Pkt. 10c**

**California Giants**—New variety of real merit. Of immense size and beauty, long, sturdy stems, non-lateral type. Resemble "Crego" in type of flower. Peach blossom, light blue, deep rose, dark purple or finest mixed. **Pkt. 10c**

**Hardy Perennial Asters (Michaelmas Daisy)**—One of the showiest of our late-flowering perennials, giving a wealth of bloom during September and October. They grow freely in any soil. If sown early they will flower the first season, 3 to 4 feet. Excellent for cutting. They come only in lavender and dark shades.

**Large flowering Varieties**—Seed saved from the choicest flowers only. **Pkt. 10c**

**Acrolinium**—Hardy annual, with everlasting flowers, good for cutting, flowers double and dry nicely if cut in bud, 1 foot, July to October, mixed double, all colors. **Pkt. 10c**

### AGERATUM

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia coleus or cannas, flower continuous through the summer, 15 inches.

**Ageratum Mexicanum (15 inches)**—Blue, sky blue. **Pkt. 10c**

**Album**—Pure white. **Pkt. 10c**

**Finest Mixed**—All colors. **Pkt. 10c**

### AGROSTEMMA

A free flowering hardy perennial of easy culture, producing the first season crimson flowers resembling a single pink. The foliage is silvery white, height 2 feet.

**Agrostemma Coornar's**— **Pkt. 10c**

**Aster Plants and All Popular Annual Bedding Plants Supplied in Season**

**AMARANTHUS**

**Caudatus (Love-Lies-Bleeding)**—Hardy annual, ornamental foliage plant, fine for bedding, green foliage with long, drooping crimson racemes, 2 feet. Pkt. 10c; ¼ oz. 35c  
**Tricolor (Joseph's Coat)**—Ornamental; for foliage only; red, yellow and green. Pkt. 10c

**ANTIRRHINUM (Snapdragon)**

Among the most popular bedding plants; the richness and diversity of colors, great freedom and protracted blooming season gives them great value for garden color masses, as well as for cutting. Bloom from July to frost. Half hardy perennials, 1½ to 3 feet.

**Katherine Morse**—A new color and form of flower in snapdragons. Color is soft tones of old rose and yellow. The tube is soft old rose and face of flower yellow suffused with old rose. Top of flower is beautifully waved. Flowers are wider than they are tall and without face usually showing on lower petal. Plant bears a profusion of large spikes. Pkt. 15c

**Black Prince**—Even wine-maroon. Pkt. 10c  
**Silver Pink—Large, tall, pink.** Pkt. 10c  
**Golden Queen**—Rich yellow. Pkt. 10c  
**Canary Bird**—Light yellow, 15 in. Pkt. 10c  
**Snowflake**—Pure white, yellow tube. Pkt. 10c  
**Nelrose**—Salmon pink. Pkt. 10c  
**Dwarf Mixed**. Pkt. 10c  
**Special Mixed**. Pkt. 10c

**ARABIS (Rock Cress)**

**Alpina**—Hardy perennial, pure white flowers in close head; excellent for edging rock-work or dry situations; 6 inches; April to June. Pkt. 10c

**ANEMONE (Wind Flower)**

Very pleasing hardy plants for the herbaceous border. Fine large flowers, few plants compare with them in beauty. Excellent for bouquets and table decorations.

**St. Brigid**—Double and semi-double flowers in a wonderful array of colors; perennial; 1 foot. Pkt. 15c

**ASPARAGUS**

**Plumosus Nanus**—A graceful pot plant for either house or conservatory (see illustration under fern plants); very finely cut, delicate lace-like foliage. Pkt. 10c; 100 seeds \$1.00

**Sprengerl**—Drooping foliage; adapted for hanging baskets or cutting. Pkt. 10c; 100 seeds \$1.00.

**ANCHUSA (P)—Italica—Dropmore**

A splendid free blooming plant for hardy borders, growing about 5 feet high. Flowers of beautiful gentian blue color. Seeds should be sown in sheltered place outdoors and transplanted when large enough to handle. Should be 2 to 3 feet apart. Pkt. 15c

**AQUILEGIA (Columbine)**

Hardy perennials are most elegant plants and invaluable for cutting or as hardy border flowers; beautiful and graceful; June to September; 2 to 3 feet.

**Long Spurred**—Superb mixture of all the most desirable shades. Pkt. 15c

**Single**—Finest mixed. Pkt. 10c  
**Double**—Finest mixed. Pkt. 10c  
**Chrysanth**—Golden yellow. Pkt. 15c  
**Coerulea**—Violet blue and white. Pkt. 15c

**ARMERIA (Thrift Sea Pink)**

Grand plants for crevices of wall and rocks, also for growing in flower borders or as permanent edgings; excellent plants for the sea coast. June to July.

**Lauchiana**—Six-inch crimson flowers, deep green tufted foliage. Pkt. 10c

**BACHELORS BUTTON (Centaurea Cyanus or Corn Flower)**

A hardy annual, easily cultivated. Produces handsome flowers of a great variety of rich colors borne on tall, branching stems, with but little foliage. Striking and handsome. Sow

seed in open ground early and transplant; 1 to 2 feet tall.

**Fine Single Mixed**. Pkt. 10c  
**Fine Double Mixed**. Pkt. 10c  
**Single Blue**. Pkt. 10c  
**Double Blue Florist Strain**. Pkt. 10c  
**Double Pink Florist Strain**. Pkt. 10c

**BALLON VINE**

A rapid growing climber. Blossoms very small and white. Light, graceful foliage. Bears curiously inflated seed pods. Sow seed where it is to remain. Succeeds best in light warm soil; 10 to 12 feet tall. Pkt. 10c

**BALSAM ("Lady Slipper")**

Handsome plants, producing masses of various colored flowers, half hardy. Curious seed pods which, when ripe, will explode when touched. If sown in May should bloom from July until frost; 1 to 1½ feet tall.

**Double Camellia Flowered**—Mixed. Pkt. 10c

**BLUE LACE FLOWER (Didiscus)**

A money-maker for florists, and a most satisfactory annual in home garden for cutting. Plants grow about 18 inches high, are covered with clusters of tiny petaled flowers, giving the effect of dainty lace. The color is an exquisite light blue. Pkt. 15c

**CANTERBURY BELLS (G) (Campanula)**

Very ornamental garden plants, growing 2½ feet high, producing large, nodding and charming bell-shaped flowers of many exquisite shades; hardy biennial. Sow seeds in May. Keep seedlings well watered and transplant to permanent location in July or August. Give rich soil and plenty of room.

**Medium Single**—Blue, rose, white or mixed. Pkt. 10c

**Calycanthema (Cup and Saucer)**—White, pink, light blue or mixed. Pkt. 10c

**Persicifolia (P)**—Very fine, blooms in June. Blue or white. Pkt. 10c

**Pyramidalis (P)**—Stately, hardy plant for pot culture or garden. Blue. Pkt. 10c

**CANDYTUFT (Iberis)**

One of the most highly prized annuals for beds or masses, very useful for cutting. For early blooms sow indoors, transplanting to garden when 2 to 3 inches high. Sowing every 2 weeks in the open will flower from July to frost. Grows 1 to 1½ feet.

**Umbellata Type**—Carmine, flesh pink, rose cardinal, crimson, lavender, white, mixed. Pkt. 10c

**Coronaria**—Giant white hyacinth flowered. Pkt. 10c

**CALENDULA (Pot Marigold)**

The well-known Pot Marigold valued by Europeans for flavoring soups and stews. Flowers are dried in fall and kept in paper bags for use. In mild climates this plant will bloom nearly all the year around. Colors range through yellow, orange and gold; 1 to 2 feet tall. Plant in early spring in open ground.

**The Ball**—Within the last few years the calendula or pot marigold has taken a new lease on life and is now not only being grown as a garden annual but also it is successfully forced under glass for cut flowers. One of our florist friends has made a selection out of Orange King and given it his name and we were joint introducers with him. It has fine stems immense double flower of a brilliant glisteny orange. A great favorite on the Chicago cut flower market. Pkt. 25c

**Lemon Queen**—A select strain, large double flowers, sunflower yellow. Pkt. 10c

**Orange King (Grandiflora)**—An excellent strain large, double flowers, rich dark orange. Pkt. 10c

**CARDINAL CLIMBER**

Considered most beautiful and brilliant annual climber. Strong and rapid grower, with fern-like foliage literally covered with a blaze of circular cardinal red flowers from mid-summer until frost. Annual. Pkt. 10c

**CARNATION (P) (Dianthus Caryophyllus)**

Carnations are tender perennials, being easily winter killed. Splendid for cut flowers, deliciously fragrant. Pink, white, and red. Sow seeds indoors in March. Transplant seedlings to other boxes when 1 inch high. Keep them growing well until soil is warm, then transfer to open garden. Height, 1 to 1½ feet. Fine plants in season. See plant department.

**Chabaud Everblooming**—Extra choice double mixed. Flowers in 5 to 6 months after sowing. **Pkt. 15c**

**Double Grendadin**—Comes into bloom very early and the charming double, scarlet flowers are very valuable for forming bouquets. Red, white, yellow. **Double Mixed Pkt. 15c**

**Margaret**—Finest double mixed. Bloom in four months from seed. **Pkt. 10c**

**Giant or Malmaison**—Mixed. **Pkt. 15c**

**Double Dwarf Vienna**—Mixed. Large flowered and comes into bloom early, producing flowers of many colors and beautiful markings; a large proportion double. **Pkt. 10c**

**CASTOR BEAN (Ricinus)**

Tropical appearing foliage plant. Highly ornamental, of stately growth, large leaves of bronze or glossy green. Should not be planted until soil is warm. Grows 3 to 5 feet tall.

**Sanguineus**—Brilliant scarlet stems and fruit. **Pkt. 10c**

**Zanibariensis**—Surpasses all in size and beauty of colors. Mixed. **Pkt. 10c**

**Mixed**—Best varieties. **Pkt. 10c**

**CELOSIA CRISTATA (Cockscomb)**

Very attractive and showy, producing massive heads of deeply colored flowers. Colors, red, purple and yellow. Sow very thinly in boxes indoors, transplanting to other boxes or thimblepot until little combs appear. Grows 9 to 12 inches tall.

**Cockscomb Tall Mixed**.....**Pkt. 10c**

**Dwarf Empress**.....**Pkt. 10c**

**Dwarf Fine Mixed**.....**Pkt. 10c**

**CELOSIA PLUMOSA (Feathered)**

Large plummy heads. For pots or open ground. Keeps well when cut. 1 to 2 feet tall.

**Finest Mixed**.....**Pkt. 10c**

**Childsii (Chinese Wool Flower)**—A unique form of the feathered cockscomb, growing 2 to 3 feet high, each branch terminated with a large head of rich crimson flowers that look as if made out of silky wool. Effective in beds and borders. Also valuable for cutting, as they can be dried, retaining their bright colors for weeks. **Pkt. 10c**

**CENTAUREA**

Sweet scented flowers on long, strong stems. Will last several days when cut. Sow where plants are to remain, thinning to 12 inches apart. Grows 1 to 3 feet tall.

**Cyanus**—Double, blue, pink shades. **Pkt. 10c**

**White**—Mixed.....**Pkt. 10c**

**Single**—Mixed.....**Pkt. 10c**

**Imperialis (Giant)**—White, purple, rose, deep lavender, and mixed. **Pkt. 10c**

**Staveolens (Yellow Sweet Sultan)** **Pkt. 10c**

**Moschata**—Mixed.....**Pkt. 10c**

**Canardissima (Dusty Miller)** **Pkt. 10c**

**CHRYSANTHEMUM**

These are very showy flowers of easiest cultivation, flowering from July to frost; excellent for cutting; 2 feet high.

**Single Annual**—Finest mixed. **Pkt. 10c**

**Double Annual**—Finest mixed. **Pkt. 10c**

**CINERARIA (B)**

Magnificent and indispensable flowering plants for the window garden. Flowers of white, blue, violet, and crimson shades, covering the plant with a sheet of bloom. Should be sown under glass in very fine soil.

**Hybrida**—Grandiflora. Choicest mixed. Pot plant. **Pkt. 25c**

**CANARY BIRD VINE**

A rapidly-growing summer-climbing annual, 10 to 15 feet high; it will cover trellis work in the most graceful manner, producing hundreds of pretty winged, bright yellow flowers. **Pkt. 10c**

**CLARKIA**

Hardy annual of easy growth, produces a fine effect massed in beds, bright and attractive. Fine for cutting. Does well in shade. Sow early in open ground. 1 to 2 feet tall.

**ELEGANS DOUBLE**

**Chamois**—With touch of pink.....**Pkt. 10c**

**Scarlet Queen**.....**Pkt. 10c**

**Salmon Queen**.....**Pkt. 10c**

**White**.....**Pkt. 10c**

**Fine Mixed**.....**Pkt. 10c**

**CLEOME**

A splendid plant for large beds or shrubbery border. Of branching habit, each branch producing a large head of attractive flowers. Sow seed in open ground as soon as weather is warm and settled. 3½ feet high. Fine for bees. Mixed. **Pkt. 10c**

**COBAEA SCANDENS (Plants in Season)**

A handsome, rapid growing, climbing plant having large, bell-shaped flowers, beautiful foliage and peculiarly delicate and curious tendrils. Seeds should be planted on edge in shallow boxes of soft soil, covering with glass until seedlings appear. Transplant May.

**Purple**.....**Pkt. 10c**

**White**.....**Pkt. 10c**

**COIX LACHRYMAE (Job's Tears)**

A broad-leaved, ornamental grass, having large, tear-shaped, hard, shining, pearl-gray seeds. Plant in prepared seed bed in open, transplant. **Oz. 10c**

**COLUMBINE (P) (Aquilegia)**

Universal favorite for hardy borders and beds, for no other plant has so airy a grace nor is more generous of its blooms or more effectively adapted for cut flowers.

**Single Mixed**.....**Pkt. 10c**

**Double Mixed**.....**Pkt. 10c**

**Long Spurred Varieties**.....**Pkt. 15c**

**Skinneri**—Scarlet, tipped white. **Pkt. 15c**

**COREOPSIS (P) (Lanceolata)**

Large, showy, bright yellow flowers produced in great abundance from June until frost; fine for cut flowers. Sow seeds indoors very early, transplanting to open when soil is warm. 1 to 2 feet high. **Pkt. 10c**

**CYPRESS VINE (Ipomoea Quamoclit)**

Climber with rapid growth. Has delicate fern-like foliage and great numbers of star-shaped blossoms with long tubes. Soak seeds over night in warm water, then sow where vine is to grow. Does best in warm, sunny location. Grows 10 to 15 feet. White, scarlet or mixed. **Pkt. 10c**

**DAHLIA (P)**

Magnificent, fall-blooming tuberous-rooted plant. Sow seeds in boxes indoors very early, transplanting to open when danger from frost is past. Will bloom first season. Tuber of the best ones may be saved for following season.

**Double Mixed**.....**Pkt. 10c**

**Single Mixed**.....**Pkt. 10c**

**Cactus**—Flowers odd and fantastic in shape; colors. Finest mixed. **Pkt. 10c**

**COSMOS**

Beautiful autumn blooming plants producing thousands of artistic flowers in pure white, pink, and crimson shades, furnishing an abundance of cut blooms for summer and fall decorations. In this climate the late flowering types do not, as a rule, bloom much before the early frosts, hence we list only the early flowering types, which by careful selec-

tion now have flowers as large as the late flowering kind. Seed sown in open ground in April should produce plants covered with blooms in July, or six weeks to two months earlier than the late flowering. Plant not less than 18 inches apart in rows or in masses in beds. Pinching out tops when plants are a foot high make them bushy and sturdy.

**Extra Early Mammoth Flowering**—Crimson pink, white. **Pkt. 10c**  
**Finest Mixed** ..... **Pkt. 10c**  
**Extra Early Double Crested**—  
**Crimson King** ..... **Pkt. 10c**  
**Pink Beauty** ..... **Pkt. 10c**  
**White Queen** ..... **Pkt. 10c**  
**Klondyke**—Blooms very early and continuously; 3 to 4 feet high; flowers large, orange, borne on long stems. **Pkt. 10c**  
**Late Flowering Double**—Mixed. **Pkt. 10c**

#### DAISY (P) (Bellis Perennis)

Popular low-growing plant bearing beautiful flowers. Hardy perennial. Sow seed in boxes about August and transplant to cold frame or some other location where they be protected the first winter. Plant in permanent location early in spring. Six inches high.

**Extra Double**—Mixed ..... **Pkt. 10c**  
**Longfellow**—Double, dark red. **Pkt. 15c**  
**Giant Double Montrosa**—Dark red, white, rose-pink, or mixed. **Pkt. 25c**  
**Double Quilled**—Rosy pink. **Pkt. 25c**  
**Shasta Alaska**—Very hardy; profuse bloomers; flowers very large and borne on long stems, single; petals pure glistening white, dark center. **Pkt. 15c**

#### DATURA

Large, strong-growing plants, trumpet-shaped flowers, white, sometimes tinted with blue. Roots can be preserved like dahlias. Sow seeds in shallow bed in open and transplant when 2 to 3 inches high. Give plenty of room and rich soil. 2 to 3 feet high.

**Fastuosa**—Double mixed. **Pkt. 10c**  
**Cornucopia**—Very fragrant. **Pkt. 15c**

#### DELPHINIUM (P) (Larkspur)

Profuse blooming plants, their tall spikes of many colored flowers produce a striking effect when planted in groups. Sow seeds in boxes indoors in early spring, transplanting to other flats when second leaf appears. When soil is warm set in open ground 6 to 8 inches apart, resetting the next spring giving rich soil and plenty of room. As a cut flower this is one of the best. 3 to 6 feet high.

**Wrexham Strain**—A wonderful long-spiked large flowered type of hardy Larkspur, often referred to as Hollyhock strain because the stately spikes with their large double blooms closely set together form a spike not unlike those of Hollyhocks. **Pkt. 25c**

**Belladonna**—Very free and continuous bloomer; delicate and beautiful; clear light blue, large flowers; 4 feet. **Pkt. 10c**

**Bellamosum**—A rich, deep blue form of the popular light blue Belladonna, having same free-blooming and other qualities. **Pkt. 10c**

**Cardinale**—“Scarlet Larkspur,” a native California species with long spikes of scarlet flowers. **Pkt. 10c**

**Vanderbilt Hybrids**—A California novelty of charming beauty, immense flower stalks with great heads of bloom tapering to tip. Nearly all flowers open at once, exhibit greatest combination of colors known. **Pkt. 10c**

**Vaughan's Gold Medal Hybrids**—This strain is especially grown for us. Seed being saved from selected plants. Many of them are double flowered and range in color from pale lavender to indigo-blue. **Pkt. 10c**

#### DIGITALIS (B) (Fox Glove)

A tall growing biennial with large leaves and spikes of vari-colored and spotted flowers. Fine for borders or background. Sow

seeds in prepared seed bed in May. Keep seedlings well watered and transplant to permanent location in July or August. Give rich soil and plenty of room. 3 to 6 feet high.

**Gloxiniiflora**—Mixed ..... **Pkt. 10c**

#### DIMORPHOTHECA AURANTIACA (Orange African Daisy)

Extremely showy annual with bushy plants 12 to 15 inches high. Flowers are 2½ inches across, of unique rich glossy orange gold, with dark blue disc and halo. Presenting a magnificent sight when in full bloom. **Pkt. 10c**

#### EUPHORBIA

Branching, bushy plants with smooth glossy leaves of various colors. Suitable for beds or borders. Sow seeds in open ground, transplanting when few inches high. Give plenty of room. Good foliage plant. 2 to 3 feet high.

**Variegata (Snow on Mountain)** **Pkt. 10c**  
**Heterophyllia**—Painted leaf. Annual poinsettia; 3 feet. **Pkt. 10c**

#### FORGET-ME-NOT (P) (Myosotis)

Beautiful spring favorites of easy growth, bearing clusters of lovely, small flowers. They can be left in the open ground except in very cold latitudes. Fine for borders and shady situations. Sow seeds in box or prepared bed in the open. 1 foot high.

**Alpestris**—Of trailing habit, with pretty flowers. Blue or mixed. **Pkt. 10c**

**Victoria**—Flowers large, bright azure blue; fine for borders. **Pkt. 10c**

**Sempefflorens**—Dwarf; continuous bloomer; blue. **Pkt. 15c**

#### FOUR O'CLOCK (Mirabilis Jalapa)

**Marvel of Peru**—Easy culture, bearing a profusion of bright flowers of various shades. Flowers open at 4 o'clock, close in the morning. Sow seeds early in the open and transplant. 2 to 3 feet high. Choice mixed. **Pkt. 10c**

#### GAILLARDIA (Blanket Flower)

Very showy garden plant, with brilliant flowers free blooming from early summer until autumn; especially effective in masses. Sow seeds early where plants are to bloom. Colors crimson, brown and orange. Splendid cut flower. 1 to 2 feet high.

**Lorenziana**—Double; finest mixed; annual. **Pkt. 10c**

**Grandiflora Maxima (P)** ..... **Pkt. 10c**

#### GERANIUM (P)

A half-hardy perennial, easily and quickly grown from seed. Sow seeds thinly in boxes indoors, covering with glass until seedlings appear. When about one inch high transplant to small pots in rather poor soil firmly pressed down. Can later be repotted in larger pots or transferred to open garden.

**Zonale**—Extra choice, single mixed, the well-known bedding Geranium. **Pkt. 15c**

**Lady Washington (Pelargonium)**—Foliage green; flowers large. Finest mixed. **Pkt. 25c**

#### GEUM (P) (Chiloense)

Hardy, free-blooming plants. Fine for bouquets. Flowers crimson, double. Blossoms all summer. 8 to 12 inches high.

**Mrs. Bradshaw**—Scarlet ..... **Pkt. 10c**

#### GOSETIA

Profuse and constant bloomers, compact and bushy in growth. Colors rose, crimson, white and pink. Sow seeds indoors in boxes and transplant. Succeeds in poor soil. 1 foot high.

**Dwarf**—Fine mixed. **Pkt. 10c**

**Gloriosa**—Dark red ..... **Pkt. 10c**

**Duchess of Albany**—White ..... **Pkt. 10c**

#### GOURDS

Gourd climber. For covering verandas and trellis work; rapid growth, bearing fruits of curious shapes. Plant after soil is warm. 10 to 20 feet high.

**Calabash** ..... **Pkt. 10c**

**Mixed Varieties** ..... **Pkt. 10c**

**GYPSOPHILIA (P) (Baby's Breath)**

A pretty, free-flowering plant. Fine for bouquets. Seeds very small. Sow in boxes indoors, covering lightly with sifted soil firmly pressed down. Transplant soon as large enough to handle. 2 to 3 feet high.

**Paniculata Fl. Pl. New**—About 30% double. White flowers. Hardy **Pkt. 25c**

**Elegans Alba Grandiflora**—Hardy annual, easily grown from seed; flowers small, pure white; 2 feet; June. **Pkt. 10c; ¼ oz. 25c**

**HELICHRYSUM (Straw Flower)**

**Monstrosum**—Everlasting. One of best for winter bouquets. Hardy annual. Red, yellow and white. Effective for bedding. Sow seeds in open and transplant or thin to 12 inches. Double mixed. **Pkt. 10c**

**HYACINTH BEAN (Dolichos Lablab)**

Rapid growing, ornamental, climbing annual, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Sow seed. Mixed **Pkt. 10c**

**HOLLYHOCKS (New Annual)**

**Hybrida Semperflorens**—This splendid variety will bloom in August from spring planting, continuing until frost. This is a great advantage, as other varieties do not bloom until the second year. Try them. Finest single mixed. **Pkt. 10c**

**HOLLYHOCK (B) (or Althea)**

The modern Hollyhock is a great improvement over the old type, the flowers being larger and richer colored. For backgrounds there can be nothing better. Hardy. Seeds should be sown in open from spring to mid-summer, transplanting in late fall. Give rich soil for best results. 5 feet high.

**Chaters**—Superb strains. Double varieties; of greatest perfection. Scarlet, rose, Newport pink, maroon, yellow, white, mixed. **Pkt. 10c**

**HUNNAMANNIA (Giant Yellow Tulip Poppy, or Bush Eschscholtzia)**

Best of the poppy family for cutting. Seed sown early in May will, by the middle of July, produce plants covered with large, buttercup yellow, poppy-like blossoms, and never out of flower until hard frost. 2 to 8 ft. **Pkt. 10c**

**ICE PLANT, Mesembrianthemum Crystallinum**

Pretty summer trailing annual for vases and rock work; leaves covered with ice-like drops. Sow seeds early in boxes. ½ to 1 ft. **Pkt. 10c**

**KOCHIA CHILDSII (Summer Cypress)**

Forms symmetrical highly decorative bushes, foliage green, turning to fiery red in autumn. Sow seed in open, thin to 15 inches. Valuable for summer hedges. 1 to 2 ft. **Pkt. 10c**

**KUDZU VINE (P) (Pueraria Thumbergiana)**

Beautiful Japan climber, hardy perennial with fragrant purplish-violet, wisteria-like flowers. 10 to 12 feet high. **Pkt. 10c**

**LEMON VERBENA (P)**

Every garden should have a few plants of this fragrant favorite. Its pale green foliage goes well with any flower. 1 to 2 feet high. (Usually propagated from cuttings). **Pkt. 15c**

**LINUM (Grandiflorum Rubrum)**

**Scarlet Flax**—One of the most showy bedding plants, fine foliage, with brilliant scarlet-crimson flowers. **Pkt. 10c**

**Perenne (P)**—Pearl blue flowers; graceful and hardy. **Pkt. 10c**

**Perenne Album (P)**—Milk white flowers, very decorative. **Pkt. 10c**

**Flavum (P)**—Very firm, yellow. **Pkt. 15c**

**LARKSPUR**

The annual Larkspurs are quite hardy and bloom in the later summer months, furnish-

ing flowers of striking beauty in form and color. Tall varieties are suitable for shrubberies and borders, while the dwarf sorts produce charming effects in beds. 1 to 2 feet.

**Dwarf Rocket**—Finest colors. Double mixed. **Pkt. 10c**

**Tall Double Stock Flowered**—Lustrous carmine, dark blue, rose, white or finest mixed. **Pkt. 10c**

**LOBELIA**

Lobelia plants in April and May at 50c dozen, postpaid.

**Erinus Gracilis**—Trailing, excellent for vases, hanging baskets and willow boxes. Bright blue flowers. **Pkt. 10c**

**Specioso**—Trailing, true dark blue flowers, with dark foliage. **Pkt. 10c**

**Hybrida Sapphire**—A beautiful trailing Lobelia; very large, deep sapphire blue flowers, with large and clear white eye; very free flowering; extra long trailer. **Pkt. 10c**

**Crystal Palace Compacta**—Little dwarf bedding plant; dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; 4 inches high. **Pkt. 10c**

**White Gem**—Compact little plants, covered with snow-white flowers. **Pkt. 10c**

**Cardinals (Cardinal Flower)**—Hardy perennial garden plant, with spikes of deep cardinal red flowers; Aug. and Sept. 3 ft. **Pkt. 10c**

**LUPINUS**

**Hartwegi**—Dark blue, light blue, rose, white, mixed. **Pkt. 10c**

**Royal Purple**—Hartwegi. Dark blue, light blue, rose, white, mixed. **Pkt. 10c**

**LUPINUS (P)**

Shrubby plants, bearing long spikes of flowers. White and pink, occasionally blue. Sow seeds in open early in spring. Transplant. Give plenty of room. Perennial. Mixed. **Pkt. 10c**

**LYCHNIS (P) (Rose Champion) (Jerusalem Cross)**

Few plants produce more brilliantly colored blossoms. Flowers are borne in clusters and continue fresh and brilliant for a long time. Hardy, 1 to 2 feet high. Orange, scarlet, and crimson. Seeds should be sown where plants are to remain, thinning to prevent crowding.

**Hageana Hybrida**—Mixed. **Pkt. 10c**

**MARIGOLD (Tagetes)**

A hardy plant in dwarf and tall varieties; foliage bright green and deeply cut. Flowers are various shades of yellow and brown. Sow seeds early in flats and transplant to garden when 3 to 4 inches tall. For specimen plants soil should be light, rich and deeply spaded. 1 to 2½ feet high.

**African**—Tall or dwarf, double *Fistulosa* type, mixed. **Pkt. 10c**

**French**—Dwarf or tall double mixed. **Pkt. 10c**

**French**—Tall striped double. Extra select. **Pkt. 10c**

**Golden Ball**—New dwarf, very compact. **Pkt. 10c**

**Legion d'Honneur**—Dwarf single. **Pkt. 10c**

**Little Brownies (Legion d'Honneur)**—Dwarf double Brownies. **Pkt. 10c**

**MOON FLOWER (Ipomoea Mexicana Grandiflora)**

Rapid growing climber belonging to the Morning Glory family. At night and on cloudy days vine is covered with fragrant white flowers 4 to 5 inches in diameter. Seeds must be soaked then planted where vine is to remain. **Pkt. 10c**

**MIGONETTE (Reseda)**

A quick-growing fragrant annual. Produces largest and finest spikes of blossoms during cool, moist weather of early spring and late fall months, but will flower freely throughout summer from seed sown early in spring. A second planting should be made about the first of August. Sow seeds where plants are to remain. Difficult to transplant. 1 foot high.

**Odorata Grandiflora**—Large, well-formed fragrant flowers. **Pkt. 10c**

**Marchet (White)**—White with reddish tinge. Best white dwarf variety. **Pkt. 10c**

**Golden Queen**—Dense, dwarf growth; flow-  
er golden yellow; very fragrant. **Pkt. 10c**

**Goliath Giant Red**—Mammoth red spikes. Very fine. **Pkt. 10c**

**MIMULUS (P) (Moschatus or Musk Plant)**

Cultivated for its rich, musky color. Flowers yellow, white or spotted. 1 foot high. It should have a rich soil and ample moisture. Will bloom first year if seed is sown early. Does best in shady situation. **Pkt. 10c**

**Tigrinus Fl. Pl. or Monkey Flower**—Beautifully spotted. Mixed. **Pkt. 10c**

**MORNING GLORY**

The tall varieties are popular, well-known, rapid growing climbers of the easiest cultivation, attaining a height of 10 to 12 feet. The Minor, or Dwarf, varieties flower very freely and do not require support. Plant seed early where plant is to remain.

**Convolvulus Major**—Tall, choice single, mixed, all colors. **Pkt. 10c**

**Double Mixed**—Tall **Pkt. 10c**

**Imperial Japanese Fringed**—These have very large fringed flowers in a great variety of exquisite colorings; variegated foliage... **Pkt. 10c**

**MIMOSA (Sensitive Plant)**

**Pudica**—A good foliage plant. Very curious and interesting, leaves close if touched or shaken. 1 to 1½ feet high. **Pkt. 10c**

**NEMESIA**

A splendid border plant with the widest range in color. Is very early, a continuous bloomer, and stands a lot of hardship. If topped, and watered when beginning to seed it will start blooming all over again. The Orchid-like flowers are varied in color, blue, orange, rose, yellow, etc.

**Blue Gem**—Flowers almost like Forget-Me-Not. **Pkt. 10c**

**Triumph Mixed** ..... **Pkt. 10c**

**NIGELLA (Love-in-a-Mist or Devil-in-a-Bush)**

Compact growing, free flowering plants with curious looking showy flowers and finely cut foliage. Colors blue and white. Sow the seed about April and thin to 8 to 10 inches.

**Mixed Colors** ..... **Pkt. 10c**

**Miss Jekyll**—Cornflower blue.... **Pkt. 10c**

**NICOTIANA**

A very showy plant, producing star-shaped flowers of delicious perfume. Taken up in the fall, cut back and potted, will bloom freely all winter. Half hardy annual; 3 feet high. Sow seeds in boxes indoors or in a sheltered place in the open. For best results give plenty of room, rich soil and sunlight.

**Affinis**—White, sweet scented. **Pkt. 10c**

**Sylvestris**—Pure white, fragrant, drooping flowers; deep green foliage. **Pkt. 10c**

**Sanderac**—Resembles the Affinis, but does not close up in the daytime. The plants are covered with carmine, red, fragrant flowers. **Pkt. 10c**

**NASTURTIUMS**

**Nasturtium**—Tall or Climbing—The most popular and most beautiful free-flowering annual climbing vines. These are all of strong, vigorous growth, throwing out running shoots that can be trained upon strings or wires, or can be easily made to climb ordinary paling fences or wire netting. They are very showy

also planted at the top of a steep slope and allowed to run down the bank. We offer only the finest strains, producing the largest and richest flowers. **Pkt. 10c; oz. 15c; 4 ozs. 50c**

**DWARF NASTURTIUMS**

These are of dwarf, compact, rounded growth and are especially desirable for planting as borders to flower beds or along garden walks. As with all nasturtiums, they succeed best on light, well-drained soils or in slightly raised beds. **Pkt. 10c; oz. 15c; 4 ozs. 50c**

**OENOTHERA (Evening Primrose)**

Elegant for growing in an exposed position, in border or on rockery; constant bloomer all summer. Shades of yellow. Sow seeds early in boxes, covering very lightly with fine soil firmly pressed down. Transplant seedlings. Fine mixed. **Pkt. 10c**

**GIANT FLOWERING PANSIES****Swiss Giants**

A sturdy magnificent new strain of Giant Pansies, more beautiful than any others we have ever seen. It produces well-rounded, compact plants which are literally covered with immense, heavy blooms of remarkable substance and texture. The range of color is simply remarkable and by far the majority of plants bear heavily ruffled and crinkled blooms, carried on long stems. The close selection makes the strain more expensive than others but it is worth all it costs. **Pkt. 25c; 5 pkts. \$1.00.**

**Giant Mastodon Pansies**—Immense and well waved petals. This extra fine strain includes everything from pure white to deep mahogany. The excellent lavender, rose, cerise and light blue shades deserve special mention. This mixture is particularly fine for the greenhouses or for frames, but it will do just as well out in the open. **Pkt. 20c; 6 pkts. \$1.00**

**Holland Strain**—Extra large flowered exhibition mixture. This strain will meet the demand for a real giant flowered fancy Pansy and is our finest mixture. Comprises exquisite shades and colors and produces flowers of great substance. **Pkt. 20c; 6 pkts. \$1.00**

**Oregon Seed Store**—(Exhibition Mixed). This mixture contains the finest varieties grown in Europe and in this country. This is as fine a mixture as can be made. The flowers are of the largest size and most perfect form and texture. It is a wonderful selection of beautiful shades and colors and sure to please the most critical grower. **Pkt. 20c; 6 pkts. \$1.00.**

**PENTSTEMON (P) (Beard Tongue)**

Brilliant bell-shaped flowers borne on long spikes, and produced abundantly all summer. Colors range through red, rose, cherry, carmine, pink and purple. Should be sown indoors. Cover lightly and press down firmly and transplant to open. Mixed. **Pkt. 10c**

**"Sensation"**—As a bedding plant this takes rank with the Petunia. About 2 feet, every branch a spike of flowers in a wide range of bright colors. Treated as Petunias. **Pkt. 10c**

**PORTULACA (Rose Moss)**

Brilliant dwarf annuals, only 6 inches high, luxuriating in warm situations, and blooming profusely in early summer to autumn. For low beds and masses of color from spring until frost they are indispensable. Colors range through innumerable shades of red, yellow, pink, white, striped, etc. Sow seeds indoors. Thrive best in hot and dry places.

**Single Mixed** ..... **Pkt. 10c**  
**Double Mixed, Extra** ..... **Pkt. 10c**

**PEAS—Perennial (P) (Lathyrus Latifolius)**

Similar to sweet peas but not so fragrant; they bloom through a long season, are perfectly hardy, and will live for years. Should be sown near a fence or other support, thinning to 2 to 3 feet apart. 4 to 6 feet high. **Pkt. 15c**

**POPPY**

**Giant Oriental Poppies**—Among hardy perennials these hold an unrivaled position for gorgeous effectiveness. 2 to 3 feet. Flowers immense, often 6 inches across. Excellent cut for decorations. Plant in the open ground in June or July to bloom the following season.

**Oriental Brilliant**—Bright scarlet, black spots at base of each petal. **Pkt. 10c**

**Oriental Princess Victoria**—A beautiful salmon pink; wonderful flower. **Pkt. 10c**

**Iceland, or Nudicaule** (Perennial)—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, about 12 inches in height, bearing beautiful brilliant single flowers in endless profusion, Single mixed. **Pkt. 10c**

**Double Iceland Mixed**—Very choice strain, double flowers. **Pkt. 15c**

**Shirley Poppies**—Very beautiful satiny flowers of various colors from white through delicate shades of rose, pink, and carmine, to the deepest crimson. Fine for cutting and will keep fresh in water for several days if cut before the blooms are fully expanded. Finest mixed. **Pkt. 10c**

**California Poppy** (Eschscholtzia)—They commence to bloom within a few weeks' time from spring sown seed and continue to flower profusely until late in the autumn, forming nice, bushy plants 1 to 1½ feet high. Colors yellow, red, orange and white. Fine delicate foliage. Sow seeds either in fall or spring where plants are to remain. Seedlings are difficult to transplant. Thin to 12 inches. **Pkt. 10c**

**PETUNIA (Hybrida)**

During the whole season it is covered with large, showy blossoms, which are always bright and fresh, in spite of heat and drought. The flowers are of an almost infinite variety of colors and markings, and quite as varied in form; large and small, fringed and plain, double and single. Hardy annual. Sow seed very thinly indoors under glass. Care should be taken to save the weaker seedlings as they produce the finest flowers. Transplant to garden when soil is warm. 1 to 1½ feet high.

**Single Choicest Mixed** ..... **Pkt. 15c**

**Double Choicest Mixed** ..... **Pkt. 35c**

**Single Fringed**—Finest mixed. .... **Pkt. 25c**

**Double Fringed Mixed** ..... **Pkt. 50c**

**Elks Pride**—Deep (Elks) purple. Large flowers, fine for window boxes, borders and bedding. **Pkt. 35c**

**City of Portland**—One of the finest shades of pink. Flowers large and ruffled. Fine for borders or bedding. **Pkt. 35c**

**PINKS**

The Dianthus family embraces some of the finest of all flowering plants. The blooms are of the richest and most pleasing colors, and nothing can surpass the exquisite fragrance of some varieties. They are hardy and become perennial in warm climates. Sow seed in boxes indoors and plant out in good soil when 1 to 2 inches high.

**Chinensis Type**—Single mixed. **Pkt. 10c**

**Double Mixed** ..... **Pkt. 10c**

**PASSIFLORA (P) (Passion Flower)**

Most interesting and well-known climber, bearing singularly beautiful flowers. 10 to 12 feet high. Blue. **Pkt. 10c**

**PHLOX DECUSSATA (P) (Perennial)**

Large, compact heads of bloom from mid-summer until fall. 2 to 4 feet. Wide range of colors. Sow seed early in boxes and transplant seedlings once before placing in permanent location. Usually blooms the first season. Requires 5 to 6 months for seed to germinate. Mixed. **Pkt. 10c**

**PHLOX DRUMMONDI**

Unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. For cutting, for bouquets or for

bedding in masses they are unsurpassed. Hardy annual, 1 foot high. Sow as soon as soil is warm. Transplant about 1 foot apart.

**Large Flowering**—Crimson, white, or mixed. **Pkt. 10c**

**PYRETHRUM ROSEUM (Painted Daisy)**

One of the most valuable of our early summer flowers. Charming color, and wonderful lasting properties as a cut flower; flowers in May and June, and frequently in August and September; in all shades of rose and pink. **Pkt. 10c**

**Aurum (Golden Feather)**—Half-hardy, perennial; valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants, 6 inches. **Pkt. 10c**

**RUDBECKIA (P) (Golden Glow) (Newman)**

Brilliant orange yellow petals around a large dark center. Useful for borders or as a single group. Sow seed in a sheltered place and transplant when a few inches high. 4 to 6 feet high. **Pkt. 15c**

**SALPIGLOSSIS (Painted Tongue)**

Undoubtedly one of the most attractive annuals and should be in every garden. The blossoms are tube-shaped much like a petunia but rivaling the latter in the beautiful colors displayed. Each flower is veined with a glint of gold, and it is the only flower to our knowledge possessing this odd characteristic. The Salpiglossis is deservedly known as the Orchid of Hardy Annuals. If you are not familiar with this, try one package and know your garden will always contain it after you have seen it. Crimson, pink, purple and gold (new) velvety red. **Pkt. 10c**

**Gloxiniiflora Mixed**—2½ feet. A special selection of the Painted Tube Tongue made by a French hybridizer. Flowers large and fancifully veined in contrasting colors. **Pkt. 10c**

**SAPONARIA OCYMOIDES (P)**

Very showy, hardy perennial rock plant, producing masses of small bright rose flowers during the summer months. **Pkt. 10c**

**SCABIOSA (Sweet Scabious, or Mourning Bride)**

Free flowering annuals; white, carmine, lilac, maroon, etc.; effective for garden decorations and valuable for cutting. Sow seeds in open as soon as soil is warm, thinning 8 to 10 inches. Blossoms from early July until frost. 2 to 2½ feet. **Pkt. 10c**

**Double Mixed** ..... **Pkt. 10c**  
**Caucasica Perfecta**—Perennial. Flowers on long stem, fine for cutting. **Pkt. 10c**

**SCHIZANTHUS (Butterfly Flower)**

Beautifully fringed and delicately colored flowers so numerous as to hide the foliage. Splendid bedding plants. Seeds sown in open come into bloom in a few weeks. Fine pot plant for house in winter. 1 to 2 feet.

**Rose and Amber Shades** ..... **Pkt. 10c**

**Grandiflora Hybrids Mixed** ..... **Pkt. 10c**

**STATICE (P) (Sea Lavender)**

Splendid for border or rockery, producing panicles of minute flowers; can be dried and used for winter bouquets.

**Latifolia**—Sow like other perennials in flats or cold frames and transplant when large enough into permanent position, 12 to 18 inches apart. Blue. **Pkt. 10c**

**SWEET ROCKET (P) (Hesperis)**

An old, hardy garden favorite. Fragrant white flowers, 2 to 3 feet high, resembling Perennial Phlox. Sow seed early and transplant once before placing in permanent location. **Pkt. 10c**

**SWEET WILLIAM (B) (Dianthus Barbatus)**

Remarkably free-flowering plant of brilliant colors, ranging from snow-white to darkest crimson and fragrance. May be sown in open and thinned to 6 to 8 inches. 1 to 1½ feet.

**Scarlet Beauty**—Single ..... **Pkt. 10c**

Newport Pink—Single .....	Pkt. 10c
Dark Red—Single .....	Pkt. 10c
Turkey Red (New)—Single .....	Pkt. 10c
Giant Flowering Mixed—Single .....	Pkt. 10c
Giant Flowering Mixed—Double .....	Pkt. 10c
Salmon Pink—Single .....	Pkt. 10c

**SALVIA (Flowering Sage)**

Very ornamental, flowers borne in spikes of fiery red or crimson; and continue in bloom in open ground until after severe frosts. Start in heat and transplant into light soil 1 to 2 feet apart. Excellent for bedding in masses or single planting. Hardy annuals.

**Zurich (New Dwarf Early)**—The finest of all Dwarf Salvias. Very floriferous. Pkt. 10c  
**Splendens**—Brilliant scarlet. Pkt. 10c  
**Bonfire (Clara Bedman)**—One of the finest Salvias ever introduced; compact bush about 2 feet in height and diameter. Pkt. 10c

**SILENE (Catchfly)**

A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers in various shades of pink. Fine for border or rockery. The plant is covered with glutinous moisture, to which flies adhere; hence its name. Sow in boxes and transplant as soon as large as large enough to handle.

**Fine Mixed**—All colors. .... Pkt. 10c

**STOCKS**

These popular flowers are easily grown, and are so highly fragrant and of such beauty that they deserve a place in every garden. Seeds should be sown under glass in a warm place, giving plenty of air after seedlings are up. Transplant when about 2 inches high. We offer a splendid collection of selected American grown varieties of highest quality.

**Large Flowering, Dwarf, Ten Weeks**—White Pkt. 10c

**Large Flowering, Dwarf, Ten Weeks**—Light blue. Pkt. 10c

**Large Flowering, Dwarf, Ten Weeks**—Dark blue. Pkt. 10c

**Large Flowering, Dwarf, Ten Weeks**—Rose. Pkt. 10c

**Large Flowering, Dwarf, Ten Weeks**—Crimson. Pkt. 10c

**Large Flowering, Dwarf, Ten Weeks**—Canary yellow. Pkt. 10c

**Large Flowering, Dwarf, Ten Weeks**—Mixed colors. Pkt. 10c

**Giant Perfection, Princess Alice**—White. Pkt. 10c

**Giant Perfection, Brilliant**—Bloom red. Pkt. 10c

**Giant Perfection, Creole**—Yellow. Pkt. 10c

**Giant Perfection, Sapphire**—Violet. Pkt. 10c

**Giant Perfection**—Mixed colors. Pkt. 10c

**SUNFLOWER (Helianthus)**

Stately growing annuals with immense golden yellow flowers, effective for garden

decorations. 6 to 8 feet high.

**Dwarf Double**—Bright golden yellow flowers 3 inches across. Pkt. 10c

**Globoseus Fistulosus**—Saffron, very large, double and handsome. Pkt. 10c

**Multiflora**—Beautiful, double yellow flowers. Pkt. 10c

**THUNBERGIA (Black Eyed Susan)**

Rapid growing annual climbers, splendid for trailing over trellises, fences, etc., buff, white, orange, etc., 4 to 6 feet high. Grows readily from seed sown in the open. Mixed colors. Pkt. 10c

**TRITOMA (P) (Red Hot Poker)**

Bright, showy flowers produced in large spikes of brilliant rich colors. Although hardy, requires some protection through the winter. Will bloom first season, from seeds sown indoors very early and planted out as soon as soil is warm. Cut flowers keep a long time. 2 to 3 feet high.

**Uvaria**—Dazzling orange red. Pkt. 10c

**VALERIANA (P) (Garden Heliotrope)**

Sweet scented flowers having red or white blooms produced in large heads. Fine border plants. 2 to 3 feet high. Sow seeds early in boxes and transplant to permanent location as soon as large enough to handle. Should have rich soil. Pkt. 10c

**VERBENA**

Start seed in the house under glass early in the spring and transplant after 3 or 4 inches of growth. They flower in July and continue strong and healthy until frost. 8 to 12 inches high.

**Mammoth Mixed**—Selected; extra large, fine. Pkt. 10c

**Fine Mixed** .....

**Candidissima**—White .....

**Scarlet Defiance** .....

**Pink Shades** .....

**Blue Shades** .....

**LEMON VERBENA**

Every garden should have a few plants of this fragrant favorite. (Usually propagated from cuttings, seldom from seed.) Pkt. 10c

**VINCA (P) (Old Maid)**

Tender perennial. Fine for pot culture. Flowers white and pink. Mixed. Pkt. 10c

**WALL FLOWER (B) (Cherianthus Cheri)**

Produces spikes of beautiful, exceedingly fragrant flowers. Colors yellow, red, orange, and brown. Half hardy perennials. Sow seed in open and transplant to permanent location late in summer. Should bloom second season. 1 to 1½ feet.

**Mixed Single**—Large flowering. Pkt. 10c

**Finest Tall, Double Mixed**—Branching. Pkt. 10c

# Sweet Peas---Giant Spencer Improved

**Orange and Salmon**

Too many varieties of Sweet Peas. It has always been a puzzling question to small growers, who, desiring to grow only a limited number of sorts, with as great an assortment as possible, are sometimes rather disappointed because some of the varieties are so nearly alike.

It will be realized that exhibitors and other keen growers are influenced by delicate shadings of color, by difference in form, by the way the blooms are placed on the stem, and so forth. We, therefore, keep a sufficiently wide range of varieties to suit these tastes, although, to the casual eye many of them are very much alike. We have made up our list of varieties, which, we believe, will answer all purposes.

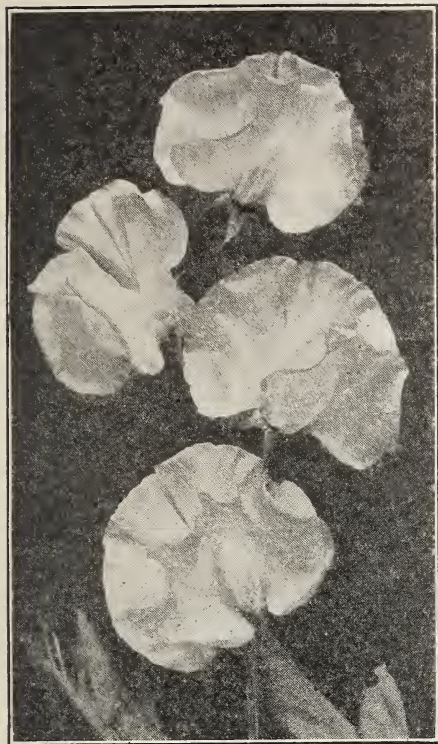
**Barbara**—A beautiful shade of orange-salmon, the brilliancy of the coloring being enhanced by planting in partial shade. Pkt. 10c; oz. 35c; 4 ozs. \$1.00; lb. \$3.00.

**Robert Sydenham**—Glowing orange-salmon, strong grower, four flowers on a stem, the largest of this shade. Pkt. 10c; oz. 35c; 4 ozs. \$1.00; lb. \$3.00.

**Helen Lewis**—Orange-rose wings and intense rich crimson-orange standard. An old favorite. Pkt. 10c; oz. 35c; 4 ozs. \$1.00; lb. \$3.00.

**Tangerine**—This is the last word in orange-colored Sweet Peas. Pkt. 10c; oz. 35c; 4 ozs. \$1.00; lb. \$3.00.

## IMPROVED GIANT SPENCER SWEET PEAS



## RED AND CRIMSON

**Flamingo**—Beautiful orange scarlet cerise. It is more than that because in sunshine or artificial light it appears to be suffused richly with orange scarlet. The flowers are large, nicely waved, and well placed on strong stems.

**Campfire**—This is the brightest, pure flame scarlet ever offered. A vivid extremely bright color. Wonderful large flowers that will not burn in the hottest sunshine.

**Royal Scot**—Brilliant lustrous orange-scarlet flowers with a deep cerise sheen. Large and well waved blooms arranged in artistic sprays.

**Sybil Henshaw**—A beautiful large flower; color, deep crimson.

**Warrior**—Rich velvety maroon which is considered the best dark variety.

## WHITE AND CREAM

**Constance Hinton**—Decidedly the best black-seeded, white-flowered variety. Flowers are of largest size, and comes at times with a decided bluish tinge.

**Youth**—A clear, waxy white with a well-defined clear pink edging. Enormous flowers, very fragrant. Dainty and desirable in every way. Try it.

**King White**—The newest and most magnificent white; of perfect Spencer type; the immense petals gracefully frilled—are a pure white of wonderful substance.

**Model**—An outstanding new black-seeded white Sweet Pea of magnificent proportions.

**Daffodil**—At last a deely, rich, pure cream colored sweet pea of vigorous free-flowering

qualities. Fine frilled flowers; very charming.

**Majestic Cream**—Giant deep cream. White seeded.

**What Joy**—Primrose yellow shading to cream. Very beautiful.

## LAVENDER AND BLUE

**Reflection** is a great improvement in the clear blue section in Sweet Peas. Reflection is the result of a cross made for "blueness" and vigor. The result is an outstanding robust grower with long, stout stems, usually having four well placed flowers on each. The flowers are bold, nicely waved, of large size and clear blue with only the slightest trace of mauve in the young bud.

**Powercourt**—A pure lavender self with flowers of mammoth size, yet refined and well placed on long stems. Of vigorous and free-flowering habit. The one best, pure lavender. Award of Merit from the National Sweet Peas Society of Great Britain.

**Mrs. Tom Jones**—Very large and of great substance, beautifully waved, usually borne four on a stem of great length. Color is best described as a bright "delphinium blue."

**Royal Purple**—An excellent variety with large rich purple blooms borne profusely in fours on long stems. The younger flowers are a trifle lighter.

**Austin Frederick Improved**—A very strong growing, large lavender, of good, clear color. It is more of the rosy lavender than the blue. The flowers are very large and the stems extra stout. A most satisfactory variety to grow.

**Gleneagles**—Flowers of immense size; color a blue lavender.

## PINK SHADES

**Idyl**—The color is rich, bright and a delightfully pleasing clear salmon pink. Idyl is a strong grower, and the blossoms are nicely waved.

**Pinkie** is a large, deep rose pink. It is the result of a cross made for vigor and color, and the result is most outstanding.

**Pinkie** is larger than any other variety we have ever seen belonging in the deep pink section of the National Sweet Pea Society's classification list. It is a most vigorous grower, a continuous cropper and with outstanding long, stout stems. The flowers are nicely waved and well placed on the stems.

**Winnie Morse** is the largest and one of the most beautiful Sweet Pea ever introduced. The flowers are mostly duplexed and delightfully frilled, giving the blossoms a fine light, wavy effect in spite of their large size. The color is cream ground, lightly flushed, soft rose pink. The effect when bunched is very sweet and pleasing, and the flowers are well placed on strong stems.

**Carnival**—Rose pink on cream ground. A beautiful dainty rose pink with just the faintest suffusion of cream, making the color combination hard to surpass. The flowers are perfectly formed with both standards and wings decidedly waved. Carnival is a sturdy grower, and producing an abundance of large four-flowered sprays on long, stout stems.

**Miss California**—This beautiful Sweet Pea is unsurpassed for either exhibition or general cutting purposes. The color is a most distinct and beautiful shade of rich pink, deeply flushed and shaded with salmon.

**Mary Pickford**—A beautiful dainty, cream pink with just the faintest suffusion of sal-

## SWEET PEAS— (Continued)

mon, making a color combination of delightful beauty. A novelty of real merit.

**Hebe**—This is the largest and best rose-pink variety. It is a variety with great vigor and the flowers are always produced on exceptionally long stems.

**Supreme**—A clear, light, soft pink. Very attractive.

SEE PAGE ONE FOR SPECIAL COLLECTIONS AND NEW VARIETIES

## GIANT DAHLIA FLOWERED ZINNIA

One of the most brilliant and showy of garden plants, one of the most easily grown from seed, and the immense double flowers are still in their glory after most other flowers have been killed by frost. Hardy annual; two feet high. Sow seed outdoors early in spring and thin the plants to six inches apart. For earlier blooms, plants may be started indoors.

**Exquisite**—By far the most pleasing of our collection. Truly DAHLIA flowered as regards form and size. Color, light rose with center a deep rose. (Tyrian Rose.) **Pkt. 15c**

**Old Rose**—This is adequately described by its name, as it is of the real old rose shade. It is large, and for charm and beauty we consider it ranks next to exquisite. **Pkt. 15c**

**Illumination**—Similar to Exquisite, but a striking self color of deep rose (Tyrian Rose.) **Pkt. 15c**

**Golden State**—A very rich orange yellow (Cadmium). Yellow in bud, turning to an attractive orange when in full bloom. **Pkt. 15c**

**Crimson Monarch**—By far the largest and best of red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit. **Pkt. 15c**

**Giant Attraction**—A distinct shade of brick red (Spectrum Red), which carries its color well from the bud, and forms into an immense ball of color when in full bloom. **Pkt. 15c**

### DOUBLE GIANT ZINNIAS

**Improved Grandiflora Robusta**—These are the giant or mammoth flowering type and are in every way superior to the common kinds. Flowers are borne on long, stiff stems and are of a semi-globular form, very full and double. Excellent for cutting. Plants grow 2 to 3 feet high and produce very freely immense flowers, many measuring from 4 to 5 inches across and all of lovely rich and rare colors. Cultivation: Fertilizer and plenty of water will increase the number and size of the flowers.

Apricot Buff	Purple
Apricot Orange	Rose
Apricot Yellow	Salmon
Bright Rose	Scarlet
Crimson	White
Deep Flesh	Mixed
Orange	

Price, any of the above, per pkt. 10

## POPULAR ANNUAL BEDDING PLANTS

Our stock of perennials is very complete and for immediate results they will be found very satisfactory.

Annual bedding plants are so inexpensive that they should be planted extensively for cut flowers in the home as well as for garden

Alyssum	.....\$ .50	Clarkia	.....\$ .50
Asters	.....\$ .50	Cosmos	.....\$ .50
Carnations	.....\$ 1.50	English Daisies	.....\$ 1.00
Calliopsis	.....\$ .50	Forget-Me-Not	.....\$ 1.00
Candytuft	.....\$ .50	Geraniums	\$1 to 3.00
Centaurea	.....\$ .50	Heliotrope	.....\$ .75

### RUFFLED GIANT MIXTURE OF SPENCER SWEET PEAS

This is our own special mixture and is composed only of the best giant ruffled flowering wavy Spencer varieties. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequalled.

**Pkt. 10c; oz. 15c; 4 ozs. 50c; lb. \$1.50**

SEE PAGE ONE FOR SPECIAL COLLECTIONS AND NEW VARIETIES

**Dream**—A fine deep lavender, turning to purple (Mallow Purple), a new, desirable shade in Zinnias. **Pkt. 15c**

**Polar Bear**—A very large pure white, the best white yet seen in Zinnias. True Dahlia form. **Pkt. 15c**

**Buttercup**—An immense deep creamy yellow, A very desirable flower, which should be included in every collection. **Pkt. 15c**

**Scarlet Flame**—A large, beautiful bright scarlet, with a delightful blending of orange throughout the petal. This is not a bicolor. **Pkt. 15c**

**Meteor**—A rich, glowing, deep red (Spinel Red), and the darkest of all the red shades. Fine form, with good depth of petal. Very large and more floriferous than other reds. **Pkt. 15c**

**Oriole**—We consider this the most beautiful of its class. It is an immense orange and gold bicolor, changing slightly as it ages, but at all times worthy of the beautiful bird for which it is named. Our cultures are limited, and we can offer Oriole in small quantities only this year. **Pkt. 15c**

**Dahlia-Flowered Zinnia, Mixed**—New, and specially fine. The flowers are fuller and more double than any others. **Pkt. 15c**

**Superb Double Giant Special Mixed**—Our own superb mixture, made up from separate shades so as to produce a blend of wide range and rare and rich true colors. **Pkt. 10c**

### ZINNIA PLANTS

**Mixed and separate Colors**—We will be able to supply in season well-grown plants from our own select seed. Order early while we have all colors and we'll send in proper season.

### IMPROVED DWARF ZINNIA

**Elegans Pumila**—This improved, large flowered dwarf, double Zinnia makes very effective plants for bedding or borders; plants are compact and flower freely all summer; very desirable; 1 foot. Bright scarlet, golden yellow, salmon rose, white or mixed, all colors.

**Pkt. 10c; ¼ oz. 35c; 4 ozs. \$1.00**

effects. They also make splendid displays in tubs and porch boxes.

We have for early delivery fine large plants that can be set as soon as weather permits and with little care will bloom freely throughout the season. Prices are per dozen, f. o. b. Portland.

Larkspur	.....\$ .50	Pinks	.....\$1.25
Lobelia	.....\$ .50	Salpiglossis	.....\$ .50
Marigold	.....\$ .50	Salvia	.....\$ .60
Mignonette	.....\$ .50	Stocks	.....\$ .50
Petunia	.....\$ .75	Verbena	.....\$ .50
Phlox	.....\$ .50	Zinnias	.....\$ .50

## HARDY PERENNIAL FLOWERING PLANTS

No class of plants enjoy greater popularity at the present time than the hardy perennials. They have made rapid strides into public favor the past few years, until now they may be considered to have a prominent and a permanent place in our American gardens. Once planted, they require very little care, increasing in size of plant and profusion of bloom from year to year. Most varieties can be taken up, divided and reset every third year.

### ARABIS

**Rock Cross**—One of the most desirable of the very early spring flowering plants for edging and the rock garden. Forms a dense carpet, completely covered with pure white double flowers; 6 inches. **Each 20c; doz. \$2.00**

### ANEMONE

**Japanese**—These beautiful Windflowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost. Excellent for bouquets, lasting for days when cut. 2½ to 3 feet. **Ea. 30c; collection 3 kinds 75c**

**Whirlwind**—Best large pure white.

**Alice**—Lovely flowers, beautiful pink.

**Prince Henry**—Red, large, free flowering.

### ALYSSUM

**Gold Dust (Saxatile Compactum)**—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 10 to 12 inches. **Each 25c; 3 for 60c**

### AQUILEGIAS

The columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising 2 feet or more above the beautifully divided foliage, and are highly prized for cutting; June to September.

**Mixed**—Very choice. **Each 30c; 3 for 75c**

**Michaelmas Daisies**—Among the showiest of our late-flowering, hardy plants, giving a wealth of bloom during September and October. They grow freely in any soil. Fine for cutting; 3 to 6 feet. Lavender, white, heliotrope and blue. **Ea. 30c; 4 sorts \$1; doz. \$2.50**

### BELLIS PERENNIS

**English Daisy**—Popular early flowering plants. Very pretty for small borders.

**Double Red or White**, each 20c; doz. \$2.00

**Mammoth**—Extra large flowers in white or pink only. **Each 25c; doz. \$2.50**

### COREOPSIS

**Lanceolata Grandiflora**—Popular hardy plants. Flowers are rich golden yellow; graceful form and invaluable for cutting, main crop comes during latter part of June, but continues in bloom entire summer-autumn; succeeds everywhere, 1½ ft. **Each 25c; 3 for 65c**

### CANTERBURY BELLS

(Campanulas or Bellflowers)

One of the most popular hardy garden plants on account of the beautiful clusters of long-stemmed, dainty yet large flowers. They are very showy. The "Calycanthemata" are only "biennials."

**Persiciflora (Peach Bells)**—Large clusters of drooping bell-shaped flowers during June and July; 3 feet. Blue or white. **Each 25c; doz. \$2.50**

**Calycanthemata (Cup and Saucer Canterbury Bells)**—A beautiful form of this favorite flower. Blue, rose or white. **Each 25c; doz. \$2.50**

### CHRYSANTHEMUMS

They produce a lavish profusion of blooms after most flowers are gone; very popular.

**Hardy Pompom**—Small ball-shaped flowers. We offer 4 colors. Field-grown plants. Yellow, red, pink, or white. **Each 25c; 4 for 35c**

### DORONICUM

One of the most effective and very early spring flowering perennials, growing about 2 feet high, producing a profusion of Margue-

rite-like golden yellow flowers of much beauty and elegance. It is splendid for cutting.

**Each 20c; doz. \$2.00; large 30c**

### DIANTHUS

**Deltoides (Maiden Pink)**—A charming creeping variety, with medium-sized pink flowers in June and July; especially suited for the rock garden or borders. **Each 25c**

**Hardy Garden**—Mixed. **Each 25c; doz. \$2.50**

### DELPHINIUM (Hardy Larkspur)

These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy; 4 to 6 feet. Fine for cut flowers, June to November; when the first blooms are faded cut all foliage close to the ground and a second crop will come. Choice mixed, all shades. **Ea. 25c; doz. \$2.50**

**Gold Medal Hybrids**—Unquestionably the finest strain of hybrids from the best named varieties. Very large, 2-foot flowers, spikes in beautiful shades of lavender, light and dark blue. **Each 30c; doz. \$3.00**

**Belladonna**—A free and continuous bloomer; flowers clear turquoise blue; very beautiful; long flower spikes. **Each 30c; doz. \$3.00**

**Bellamosum**—Same as above; rich deep blue. **Each 30c; doz. \$3.00**

**Formosum**—Dark blue, white centers; an old favorite; 3 to 4 feet high. **Each 30c**

### DIGITALIS (Foxglove)

Old-fashioned, hardy desirable plants with broad foliage and showy flowers borne on spikes. June and July; 4 to 6 feet. Mixed colors. **Each 25c**

### FORGET-ME-NOT (Myosotis)

**Palustris**—A variety that is hardly ever out of flower; useful in shady spots in the border. **Each 25c; doz. \$2.50**

### GAILLARDIA (Blanket Flower)

Among the showiest and most effective of perennial plants, blooming continually from early summer on through the season. Grows 2 feet high. Flowers about 3 inches across, dark red in center with rings of crimson and vermillion encircling same on a golden yellow ground. **Grandiflora**— **Each 25c; 3 for 65c**

### GEUM

A showy border plant, growing about 18 inches high and producing all summer and fall brilliant double scarlet flowers in large clusters. This new variety is a fine advance from older sorts heretofore grown. We consider this the finest red hardy plant.

**Mrs. Bradshaw**—Double, scarlet.

**Each 30c; 3 for 75c**

### GYPSOPHILA (Baby's Breath)

Fine, delicate foliage. Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers; 3 to 4 feet. **Paniculata**— **Each 25c to 35c**

### HELENIUM

Hardy perennials, bearing in profusion during summer and fall, beautiful flowers for display or cutting. **Each 30c; 4 sorts \$1.00**

**Autumnale Rubrum**—Robust grower, bright terra cotta red flowers; 3 feet.

**Autumnale Superbum**—Massive spreading heads of deep golden yellow flowers; 5 feet.

**Riverton Beauty**—Rich lemon-yellow with purplish black cone. Aug. to Sept.; 3 to 4 feet.

**Riverton Gem**—Old gold changing to wall-flower red. August and September; 3 feet.

### HEUCHERA

**Sanguinea (Coral Bells)**—A compact bushy plant of robust constitution and easy culture, bearing during July and August graceful sprays of coral-red flowers in great profusion. Fine for cutting. **Each 25c; doz. \$2.50**

# HARDY PERENNIAL FLOWERING PLANTS— (Continued)

## HOLLYHOCKS

**Double or Semi-Double**—In separate or mixed colors. Each 25c; doz. \$2.50

### HYPERICUM (St. John's Word)

**Moserianum (Gold Flower)**—Of drooping trailing nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow; beginning in June. Each 25c; clumps 50c to 75c

## LAVENDER

**Vera**—The true, sweet, fragrant lavender. Flower stems always in demand. Small plants 20c; large plants 25c to 50c each.

## PHLOX

Among the hardy perennial plants no class is of more importance than the Phlox, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating or for mass effects.

**Beacon**—Brilliant cherry red. Tall.

**Baron von Dedem**—Deep pink, suffused orange, medium.

**Elizabeth Campbell**—Bright salmon pink, white eye.

**Goliath**—Bright cerise with deep eye; 3 ft. **Prof. Virchow**—Bright carmine overlaid with orange and scarlet.

**Prof. Schlemann**—Bright lilac rose. Late. **Rheinlander**—Salmon pink.

**Thor**—Rich salmon-pink; deep crimson eye.

Price of above 25c each; doz. \$2.50

Below we list two new Phlox that we can recommend as the best of their color.

**Deutschland (Homeland)**—Brilliant dark orange-scarlet; very large trusses. Each 40c; doz. \$4.00

**Gefion**—Tender peach-blossom pink with bright rose eye, creating a soft mauve effect; flower and truss very large and on erect, compact stems. Each 30c; doz. \$3.00

**Phlox Suffruticosa (Miss Lingard)**—Flowers pure white with pale pink center; flower truss is very large and long, often 1½ feet. Each 25c; doz. \$2.50

## CREeping PHLOX

**Subulata (Moss Pink)**—An early spring-flowering type with pretty moss-like evergreen foliage, which during flowering season is hidden under a mass of pretty blossoms. Excellent for bordering, rockery, and grave planting. Each 25c; 3 for 65c; 12 for \$2.50

**Alba**—Pure white flowers. Each 25c

**Lilacina**—Pretty lilac flowers. Each 25c

**Rosea**—Delicate rose-pink flowers. Each 25c

## POPPY

**Nudicaule (Iceland Poppy)**—Beautiful class of hardy poppies. Flower stems about a foot high, bearing elegant cup-shaped flowers, ranging in color from white to scarlet, but most valuable in the yellow and orange shades. Valuable for cut flowers, lasting well when cut. Each 25c; doz. \$2.50

## POPPY (Oriental)

Fine subjects for massing or planting singly in the hardy gardens; 3 feet. They make a wonderful show when in bloom. May and June. **Goliath**—Large bright scarlet.

**Salmo Queen**—Delicate salmon pink.

**Oriflamme**—Gorgeous orange-scarlet.

## PENTSTEMON

**Beard Tongue**—For description see flower seeds. Plants each 25c

## PRIMROSES PRIMULA

**English Primrose**—Pretty low growing plants bearing large numbers of beautiful flowers very early in the spring and having the old-fashioned cowslip fragrance so dear to the heart of every Englishman. The flowers are in a wide range of rich colors from golden-yellow to deep crimson maroon.

**Mixed Hybrids**—Each 25c; 3 for 65c

**Vulgaris**—Canary yellow, very early, fragrant. Each 25c

## PYRETHRUM

**Persian Daisy**—One of the most valuable of our early summer flowers; in charming shades of color; and wonderful lasting properties as a cut flower; they flower in May

and June and frequently in August and September the second time; the colors run into almost every shade, which makes them foremost of plants in this particular season.

**Hybridum**—Mixed. Each 30c; doz. \$3.00

## RUDBECKIA (Golden Glow)

Indispensable for the hardy border; grow and thrive anywhere, giving a wealth of bloom which are well suited for cutting.

Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall; 6 to 8 feet. Small plants 25c; large 35c.

## SAXIFRAGAS

**(Umbrosa London Pride)**—A low-growing, spreading sort, throwing up slender stems a foot high of pretty pink flowers in dainty clusters; small, dark evergreen leaves. A fine border for banks or rockeries.

**Megasea**—Very hardy and ornamental; leaves broad round, deep green; 1 foot. Pretty flowers. Very early. Each 25c; dozen \$2.50

## SHASTA DAISY

Very large daisy-like flowers, often measuring 4 to 5 inches across, having 3 or more rows of petals of the purest white. Flowers produced in great profusion on long, strong stems. Very popular; 2 to 3 feet. Each, small 20c; dozen \$2.00; large 25c; clumps 35c.

## SCABIOSA

**Caucasica**—A choice hardy plant, thriving in any situation and producing fine umbels of beautiful lavender-colored flowers all season through; flowers very lasting, admirably adapted for cut flower purposes; grows 18 inches high. One of the finest perennials. Each 25c; 3 for 65c

## STOKESIA

**Cornflower Aster (Cyana)**—Handsome lavender-blue cornflower-like blossoms which measure from 4 to 5 inches across. Desirable as a single plant or grown in beds; 18 to 24 inches high; June to September. Each 30c

## SWEET WILLIAMS

Of late years these have been greatly improved in form and habit. They produce a wonderful array of vivid colors in fancy patterns. Flowers in flat clusters, very showy and effective; 18 inches; are at their best during June and July.

**English Varieties**—Mixed. Each 25c

**Newport Pink**—Rose pink. Each 30c

## TRITOMA

### Flame Flower (or Red Hot Poker)

**Pfitzerii**—Blossoms from August to October with spikes 3 to 4 feet high, and heads of bloom of a rich orange-scarlet, producing a grand effect either planted singly in the border or in masses. Each 30c

## VALERIANA

**Garden Heliotrope**—Decorative plant for the rockery, with strong heliotrope odor.

**Coccinea Rubra**—Rose-pink flowers. Ea. 25c

## VERONICA

**Rupestris**—A fine rock plant, growing 3 or 4 inches high, thickly matted deep green foliage, hidden in spring under a cloud of bright blue flowers. Each 25c

## VINCA

**Myrtle (Minor)**—An excellent dwarf evergreen trailing plant, used extensively for carpeting ground under trees and on graves; small dark green leaves. Ea. 20c; doz. \$2.00

## VIOLETS

Of all the delightful perfumes, that of the Sweet Violet is the most delicate and pleasing, and places his modest flower among our greatest favorites. They commence to bloom as soon as the cold weather comes in the fall and flower very profusely in spring. Ea. 20c

## WALL FLOWER

**Double English**—A fine old hardy garden plant seen in every English garden. Grows about 18 inches high and produces early in spring colored spikes of bloom in various shades of yellow and brownish red.

**Yellow, Red or Crimson**—Each 25c

**Mixed**—All colors. Each 20c; doz. \$2.00

YOU SHOULD READ

# Better Flowers

A MAGAZINE DEVOTED TO ROSES AND FLOWER GARDEN CULTURE  
IN THE PACIFIC NORTHWEST

We are authorized to accept subscriptions at the rate of \$1.00 per year. Send check or money order to Oregon Seed Store, 234 Yamhill Street, Portland, Oregon.

## OREGON - GROWN ROSE BUSHES

All Two-year Field Grown, Budded and Postpaid

### Best Stock

	No. 1		
Admiral Ward, crimson-red.....	.75	Francis Scott Key, crimson.....	.75
Adolph Karzer (new), chrome-yellow.....	1.00	Franklin, light salmon.....	.75
Alexander Hill Gray, lemon-yellow.....	.75	Fragrant Bouquet (new), rose-pink....	.90
America, large rose-pink.....	.75	Frau Karl Drushki, snow-white.....	.75
American Beauty, deep pink.....	.75	Geisha (new), orange-yellow.....	1.25
Angele Pernet (new), brownish-orange.....	1.00	General Jack, crimson-scarlet.....	.75
Antoine Rivorie, silvery-pink.....	.75	General McArthur, bright scarlet....	.75
Austrian Copper, copper-red.....	.60	Gen. Sup. Janssen, carmine.....	.90
Baby Cecil Brunner, light pink.....	.60	George Arends, soft-pink.....	.75
Baby Crimson, crimson.....	.60	George C. Waud, light-red.....	.75
Baby Doll, silvery pink and orange.....	.75	George Dickson, red.....	.75
Baby Edith Cavell, scarlet-red.....	.60	Gloire Ched. Guin., velvety-crimson....	.75
Baby Kirsten Poulsen, red.....	.75	Golden Emblem, sunflower-yellow....	.90
Baby Orleans, light-red.....	.60	Golden Ophelia, yellow.....	.90
Baby Perle D'Or, light orange.....	.60	Golden Ophelia, yellow.....	.90
Baby Salmon, golden-salmon.....	.75	Gorgeous, orange-yellow.....	.75
Baby Superba, rich carmine.....	.60	Grange Colomb, creamy-white.....	.90
Baby Tausandschoen, pink.....	.60	Grass an Telpitz, scarlet-crimson....	.75
Baron de Bonstettin, maroon.....	.75	Gwyneth Jones (new), shell-pink....	1.25
Betty, coppery-pink.....	.75	Hadley, dark velvety-crimson.....	.75
Betty Urpichard (new), coppery-red....	.75	Harrison Yellow, yellow.....	.75
Bridalrifle (new), rose-pink.....	1.00	Harry Kirk, sulphur-yellow.....	.75
British Queen, pure white.....	.75	Hawthorn Crimson, scarlet.....	.90
Captain Christy, delicate flesh.....	.75	Hermosa, soft pink.....	.75
Captain Hayward, crimson.....	.75	Hoosier Beauty, deep crimson.....	.90
Captain Roland Clerk (new), scarlet....	1.25	Hortulaneus Fiet, ochre-yellow.....	.90
C. F. Meyer, silvery-pink.....	.75	Hortulaneus Budde (new), dark red....	.90
Chas. K. Douglas, scarlet.....	.75	H. R. Darlington, crimson.....	.75
Chas. P. Kilham (new), orange-red.....	1.25	Hugh Dickson, red.....	.75
Chateau de Clos Vougeot, scarlet-black	.75	H. V. Machin, scarlet-crimson.....	.90
Cheerful, orange flame.....	.75	Imperial Potentate, rose-pink.....	.90
Clarice Goodacre, creamy-white.....	1.00	Independence Day, orange-pink.....	.90
Cleveland (new), old rose.....	.75	Irish Charity (new), firey scarlet....	.90
Columbia, peach-blow pink.....	.75	Irish Charm (new) golden apricot....	.75
Constance, orange buds.....	.75	Irish Elegance (new), orange to pink	.75
Crimson Emblem, crimson.....	.75	Irish Fireflame, veined crimson.....	.75
Cuba (new), orange-scarlet.....	1.00	Isobel, crimson, flushed orange.....	1.25
Dainty Bess, single, shell pink.....	1.25	Ivy May, rose to amber.....	.75
Dame Edith Helen (new), clear pink....	1.00	J. B. Clark, blackish maroon.....	.90
Dean Hole, silvery-carmine.....	.90	Jean Forestier (new), carmine-orange	1.25
Diadem (new), coppery-orange.....	1.25	Joanna Hill, long pointed buds, yellow	1.00
Doris Traylor (new), salmon-orange....	.75	John Russell (new), velvety-crimson..	.75
Dorothy Page-Roberts, coppery-pink....	1.25	Jonkheer J. L. Mock, cherry-red.....	.75
Duchess of Athol (new), golden-orange	.75	Joseph Hill, salmon-pink.....	1.00
Duchess of Wellington, yellow.....	.75	J. Otto Thilow (new), rose-pink.....	.75
Edel (new), pure white.....	.75	Juliet, glowing pink.....	.75
Edgar M. Burnett, dark pink.....	.75	Kaiserin, creamy-white.....	.75
Edith Nellie Perkins, creamy-orange....	1.25	Killarney Brilliant, deep crimson....	.75
Edith Part, rosy-red.....	.75	Killarney Queen, bright pink.....	.75
Edward Mawley, dark crimson.....	.75	Killarney Dble. White, pure white....	.90
E. G. Hill (new), scarlet, orange at base	1.25	K. of K., intense scarlet.....	.75
Eldorado (new), golden buds.....	1.00	La France, bright satin pink.....	.75
Elegante (new), creamy-yellow.....	.90	La France, coral-rose.....	.75
Elsie Beckwith (new), rosy-pink.....	1.00	Lady Alice Stanley, carmine-pink....	.75
Elvira Aramayo (new), reddish-copper	1.00	Lady Ashtown, carmine-pink.....	1.00
Emma Wright (new), glistening orange	1.25	Lady Florence Stronge, gold pink.....	.75
Empire Queen (new), clear cerise....	.90	Lady Hurlington, orange-yellow....	.90
Ethel Sommerset (new), coral pink....	.90	Lady Inchiquin (new), orange-cerise..	1.25
Etoile de Feu (new), orange-pink.....	.75	Lady Margaret Stewart, yellow.....	.75
Etoile de France, velvety-crimson.....	1.00	Lady Pirrie, copper to pink.....	.75
Etoile de Hollande (new), best red....	.90	Lady Roberts, reddish-apricot.....	.75
Felicity, mellow-pink.....	1.00	Lady Ursula, flesh-pink.....	.90
Fen Joseph Looymans (new), yellow....	.75	Laurent Carle, rosy-carine.....	1.25
F. J. Grootendorst, carmine.....	.90	Legion, large, deep cerise-red.....	1.25
Flame of Fire, pure orange.....	.90	Lord Charlemont, clear-crimson.....	1.00
Flores (new), salmon to orange.....	.90	Lord Lambourne (new), orange to scar.	.75
Frank Reader (new), lemon-yellow....	1.00	Los Angeles, flame-pink.....	.75
		Louise C. Breslau, coral-red.....	.75
		Lulu, orange-pink to copper.....	.90
		Mabel Morse, bright golden-yellow....	.90
		Mme. Alex Dreux (new), coppery-orange	.90

## ROSES—(Continued)

Mme. Butterfly, gold and apricot.....	.75	Souv. de H. A. Vershuren, yellow.....	.75
Mme. C. Testout, satiny-pink.....	.75	Sunburst, cadmium-yellow.....	.75
Mme. Edouard Herroit, coral-red.....	.75	Sunstar, orange to yellow.....	1.00
Mme. Jules Bouche, white, blushed.....	.75	Talisman (new), bright apricot.....	.90
Mme. Jules Grolez, silvery-pink.....	.75	Toison D'Or (new), orange-yellow.....	.90
Mme. Leon Paine, salmon-pink.....	.75	Una Wallace, old-rose.....	.75
Mme. Malleria (new), crimson-scarlet.....	.90	Ulrich Brunner, carmine-red.....	.75
Mme. Melaine Soupert, salmon-yellow.....	.90	Ville de Paris (new), clear yellow.....	1.25
Mme. Ravary, golden-cream.....	.75	Viscountess Davenport, rich Indian yel.	1.25
Mme. Ray Poincaire (new), pale-pink...	.90	Wilhelm Kordes (new), golden-salmon	1.00
Mme. Segond Weber, rose-pink.....	.75	W. F. Dreer, orange-pink.....	.75
Maman Cochet, pink, coral-pink.....	.75	W. R. Smith, creamy-white.....	.75
Maman Cochet, white, creamy-white...	.75	Willomere, shrimp-pink.....	.75
Marcia Stanhope (new), snow-white...	1.25		
Margaret McGredy (new), oriental red	1.25		
Marian Cran (new), scarlet.....	1.00		
Mary Pickford (new), dark, orange-yel.	.90		
Miss Cynthia Ford, pink, fragrant.....	.75		
Miss Lolita Armour, chrome-yellow.....	.75		
Miss Mona Hunting, ecru flushed salmon	.90		
Miss Rowena Thom (new), rose pink...	1.25		
Miss Willmot, white, well formed.....	.75		
Mons. Julien Potin (new), yellow.....	1.25		
Moss, red.....	.75		
Mrs. A. R. Barraclough (new) pink...	1.25		
Mrs. Aaron Ward, Indian-yellow.....	.75		
Mrs. Alfred Tate, salmon.....	.75		
Mrs. Ambrose Ricardo, largest rosy-yel.	.75		
Mrs. A. R. Waddell, scarlet.....	.75		
Mrs. Beckwith (new), yellow, long buds	1.00		
Mrs. Chas. Lamplough, carmine-pink...	1.00		
Mrs. Chas. Russell, rosy-pink.....	.90		
Mrs. Dunlop-Best, reddish-apricot.....	.75		
Mrs. E. Pem. Thom (new), lemon-yellow	1.25		
Mrs. Farmer (new), Indian yellow.....	.75		
Mrs. Fr. Dennison, light-pink.....	.75		
Mrs. F. W. Vanderbilt, orange-red.....	.75		
Mrs. Henry Morse, salmon-pink.....	.90		
Mrs. H. Bowles, rosy-pink.....	.90		
Mrs. Herb. Stephens, white.....	.75		
Mrs. H. R. Darlington (new), pure white	.75		
Mrs. John Laing, clear pink.....	.75		
Mrs. Lovell Swisher (new), salmon-pink	1.00		
Mrs. Redford, apricot-orange.....	.90		
Mrs. S. K. Rindge, long yellow buds...	.75		
Mrs. Tom Smith (new), glowing cerise	.90		
Mrs. W. C. Egan, rose-pink.....	.75		
Mrs. W. C. Miller, bright pink.....	.75		
Mrs. W. E. Nickerson (new), deep yellow	.90		
Norman Lambert (new), orange-scarlet	1.00		
Old Gold, reddish-orange.....	.75		
Ophelia, light salmon.....	.75		
Padre, coppery-scarlet.....	.90		
Portadown Ivory, creamy-white.....	2.25		
Patience (new), orange-carmine.....	1.25		
Paul Neyron, deep rose.....	.75		
Pax Labor, very double yellow.....	1.25		
Persian Yellow, golden-yellow.....	.75		
Pharisear, white to roose-pink.....	.75		
Pilgrim, silvery-pink.....	.90		
Premier, dark pink, fragrant.....	.75		
President Cherieux (new), salmon-pink	.90		
Pres. Herbert Hoover (new), scar-yel.	1.25		
President Jac Smits, velvety scarlet...	.75		
Prince de Bulgarie, silvery-flesh.....	.75		
Prince C. Rohan, maroon-crimson.....	.75		
Princess Marie Jose (new), orange.....	1.25		
Queen Alexandra, vermilion.....	.90		
Queen of Fragrance, shell-pink.....	.90		
Radiance, brilliant carmine-pink.....	.75		
Radiance, bright cerise red.....	.75		
Rapture, deep pink, tinted yellow...	.90		
Red Letter Day, brilliant scarlet.....	.75		
Rev. Page Roberts, rich yellow.....	.90		
Rosa Hugonis, single-yellow.....	.90		
Roselandia (new), golden-yellow.....	.90		
Rose Marie, bright red.....	.75		
Rose Hill, rosy-pink.....	.90		
Rugosa alba, white, single.....	.75		
Rugosa Rubra, scarlet, single.....	.75		
Scarlet Glory, scarlet.....	1.25		
Sensation, scarlet-crimson.....	.90		
Shot Silk, coppery-rose.....	.90		
Sir David Davis (new), deep crimson...	1.00		
Souv. Claudius Pernet, yellow.....	.75		
Souv. de George Pernel, red.....	.90		
Souv. de George Beckwith, pink.....	1.00		
CLIMBING ROSES			
American Beauty, rich red.....	.75		
American Pillar, rosy-pink.....	.75		
Cecil Brunner, clear-pink.....	.75		
Chaplin's Pink Climber, dark pink.....	1.25		
Cherokee, pink.....	.75		
Crimson Rambler, crimson.....	.75		
Chateau de Clos Vouge, black.....	.90		
Dorothy Perkins, pink.....	.75		
Dorothy Perkins, red.....	.75		
Dr. Van Fleet, flesh-pink.....	.90		
Emily Gray, yellow.....	.90		
Eugene Jaquet, scarlet.....	.90		
General McArthur, red.....	.90		
Gleire de Dijon, yellow.....	.90		
Gruss an Teplitz, scarlet-crimson.....	.75		
Hoosier Beauty, deep crimson.....	.75		
K. A. Victoria, creamy-white.....	.90		
Lady Ashtown, pink.....	.90		
Lady Hillingdon, apricot.....	.90		
Los Angeles, salmon-pink.....	.90		
Louise Breslau, coral-red.....	.90		
Marchal Niel, golden-yellow.....	1.00		
Mary Wallace, rose-pink.....	.90		
Mme. Alfred Carriere, creamy-white...	.75		
Mme. C. Testout, rosy-pink.....	.75		
Mme. Edouard Herroit, coral-red.....	.90		
Mermaid, white.....	.75		
Pauls Lemon Pillar, pale-yellow.....	.90		
Pauls Scarlet, vivid-scarlet.....	.90		
Sunburst, golden-yellow.....	.90		
Silvermoon, pure white.....	.75		
Star of Persia, bright yellow.....	.75		
Wichuriana alba, white.....	.75		
Wm. Allen Richardson, copper.....	.75		
STANDARD OR TREE ROSES			
These differ from the ordinary bush, in that they are budded on upright stems 3-4 feet in height. We can supply the following varieties. See general list for description. Prices each are \$3.50, \$3.00, \$2.50.			
Etoile de Hollande	Talisman		
Golden Emblem	Shot Silk		
Hoosier Beauty	Queen Alexandra		
Imperial Potentate	Norman Lambert		
Lord Charlemont			
FRUIT TREES			
Our shipping season for the above is from November 1 to April 1. Some seasons May 1, although it is too late for best results. We advise late fall or early planting while stock is dormant.			
How We Ship—Unless otherwise instructed, we ship by express or freight, whichever is cheapest, and the buyer pays the charges.			
Care of Stock Upon Arrival—If you are not ready to plant, dig a trench and "heel" in. If ground is frozen, put in a cellar and keep roots damp.			
Positively no nursery stock sent C. O. D.			
APPLES			
Unless otherwise priced	Each	10	
One year, 2 to 4 feet.....	\$ .50	\$4.50	
One year, 4 to 6 feet.....	.75	6.50	
Selected trees.....	\$1.00		
Write for our low prices per 1000.			

## FRUIT TREES—(Continued)

## SUMMER

**Red Astrachan**—Large, deep crimson, white flesh.

**Red June**—Medium, oblong, deep red.

**Early Harvest**—Medium, bright straw color.

**Yellow Transparent**—Medium, roundish, pale yellow.

**Duchess of Oldenburg**—Large, yellow, red streaked.

## AUTUMN

**Alexander**—Large, greenish yellow, streaked with red.

**Fameuse**—Medium greenish yellow, streaked with red.

**Gravenstein**—Large, beautifully dashed with red and orange.

**Malden's Blush**—Medium, yellow, red cheek.

**Red Beltzheimer**—Very large, cream colored, covered with crimson.

**Waxen**—Medium, pale yellow.

## WINTER

**Baldwin**—Large, deep bright red.

**Arkansas Black**—Medium, dark maroon.

**Ben Davis**—Medium yellowish, covered with red.

**Delicious**—One of the best.

**King**—Very large, yellowish, shaded with red.

**Jonathan**—Medium, light yellow, covered with red stripes.

**Spitzenberg**—Large, yellowish, broken with stripes of bright red.

**Northern Spy**—Large, greenish yellow, covered with purplish red stripes.

**Tolman's Sweet**—Medium, whitish yellow, slightly tinged red.

**Wealthy**—Medium, whitish yellow, shaded deep red.

**Winesap**—Medium, yellow, streaked red.

**Rome Beauty**—Large, yellow, shaded with bright red.

**Yellow Bellflower**—Large, yellow.

**Winter Banana**—Yellow, bluish cheek, sub-acid, medium size.

**Bismarck**—The apple novelty; everyone should try it; tree of short, stocky growth, thick, healthy foliage; fruit large, handsome, yellowish, sometimes shaded red cheeks; flesh tender, pleasantly sub-acid; entirely new; seldom failing to bear when two years old.

## CRAB APPLES

Price 75c each

**Transcendent**—Very large, yellow, striped red.

**Yellow Siberian**—Fruit small, golden yellow.

**Red Siberian**—Fruit small, red.

**Hyslop**—Large, dark crimson.

**Florence**—Medium, red striped.

## APRICOTS

	Each	10
4 to 5 feet .....	\$.75	\$6.50
3 to 4 feet .....	.50	4.50

**Moorpark**—Very large, yellowish green, shaded brown.

**Tilton**—Large, rich color.

**Royal**—Above medium, rich and juicy.

**The Lewis**—The new Lewis Apricot is the largest, strongest growing, best yielding, best flavored apricot we have ever seen and is perfectly hardy.

## CHERRIES

Unless otherwise priced	Each	10	100
One year, 3 to 4 feet....	\$.75	\$7.00	Write
One year, 4 to 6.....	1.00	7.50	Write

Selected trees, each \$2.00.

**Bing**—The largest black, good shipper.

**Black Tartarian**—Large size.

**Lambert**—The finest dark cherry grown.

**Late Duke**—Large, rich dark red, sub-acid.

**Montmorency**—Most popular sour cherry.

**Royal Ann**—Finest yellow cherry grown.

**Kentish**—The finest sour cherry grown.

## PEACHES

Unless otherwise priced	Each	10	100
One year, 3 to 4 feet....	\$.75	\$6.00	Write
Selected trees .....	1.00	8.00	Write

**Early Crawford**—Very large, yellow, red cheek.

**Elberta**—Very large, bright yellow, red cheek.

**Foster**—Large yellow, dark red cheek, early.

**Hale's Early**—Medium, greenish, mottled red, flesh white.

**Late Crawford**—Very large, yellow, dark red cheek.

**Salway**—Large, creamy yellow, brownish red cheek.

**Alexander**—Large, greenish white, with deep maroon.

**Muir**—Large, clear, yellow.

**Golden Cling**—Good size, yellow flesh.

**Mayflower**—Beautiful red all over; extremely early, tree hardy and healthy. Last of June. Freestone.

**Tuscan Cling**—Very large, yellow, blushed red. Vigorous, strong grower, July-August.

**J. H. Hale**—A valuable table, shipping and drying peach. Smooth skin, almost fuzzless. Very firm. Ships almost like an apple. Yellow freestone, flesh tender, excellent quality. Larger than the Elberta and ripening about the same period.

## QUINCE

One year old.....	\$1.00 each
Selected trees .....	1.25 each

**Orange**—Large golden.

**Champion**—Very large, bright yellow.

**Pineapple**—Flavor is suggestive of the pineapple; the fruit resembles the orange quince; making superior jelly; can be eaten raw and has a most exquisite and delicious flavor, not equaled by any other quince. September.

## New Selections in Nursery Stock

**New Improved Elberta Peach**—A week earlier than the old standard, larger and far superior.  
Each \$1.25; 10 \$10.00

**New All-Red Delicious Apple**—Better in color which makes it a better marketable apple.  
Each \$1.25; 10 \$10.00

**New All-Red Rome Beauty**—Better in color and flavor and far superior to the old strain.  
Each \$1.25; 10 \$10.00

## PEARS

	Each	10
First grade, 1 year, 4 to 6 feet....	\$1.00	\$8.00
First grade, 1 year, 3 to 4 feet....	.75	6.50

## AUTUMN VARIETIES

**Bartlett**—Large; skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence. August, September.

**Beurre Bosc**—Large, beautiful, russety, highly flavored; fine for shipping. September.

**Beurre D'Anjou**—Large, handsome, fine flavor; tree vigorous; heavy bearer; keeps till Christmas. September.

**Comice**—A splendid commercial variety, being of fine size; good appearance; ships well. October.

**Fall Butter**—A favorite fall pear; yellow, sweet and juicy. September.

**Flemish Beauty**—Large, beautiful, rich and sweet; pale yellow with slight russet. Adapted to Montana and the northwest.

**Seckel**—Rich and highly flavored; its highly concentrated, spicy, boney flavor is unequaled; skin brownish green, russet brown cheek. September, October.

## WINTER VARIETIES

**P. Barry**—Fine keeper. Very large, juicy, fine grained. Yellow. December, March.

## FRUIT TREES—(Continued)

**Winter Bartlett**—This fine pear originated in Eugene, Oregon. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerable later; flavor almost identical with the Bartlett; is undoubtedly one of the few pears of recent introduction of real merit.

**Winter Nellie**—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained, of a rich saccharine, aromatic flavor. December.

### PLUMS

Unless otherwise priced	Each	10
One year, 3 to 4 feet.....	\$ .75	\$6.00
One year, 4 to 6 feet.....	1.00	8.00
Selected trees, each....	\$1.25-1.50.	

**Prinlew**—A valuable new variety, produced by H. A. Lewis. A heavy and sure cropper. Plums of large size, skin yellow, overspread with bright red when fully large, a handsome looking plum and the rich, golden flesh is firm, but juicy, fine grained and most delicious of all, either raw or cooked. It's good as a peach. Stands handling and shipping well. Ripe in August. If you only have room for one plum, plant a Prinlew.

**Abundance**—Large, flesh yellow, early.

**Bradshaw**—Large, reddish, purple.

**Columbia**—Large, brownish, purple.

**Clyman**—Medium, mottled, reddish purple.

**Danison**—Small, skin purple, oval.

**Danison-Shropshire**—Medium size, dark purple; firm; flesh greenish; juicy and rich. Vigorous. Late September.

**Green Gage**—Small, round, green flesh.

**Peach**—Large, brownish red, flesh yellow.

**Reine Claude**—Large, greenish, marked red.

**Satsuma (Blood Plum)**—Quite popular; large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

**Washington**—Large, dull yellow with crimson blush.

**Yellow Egg**—Large, deep golden yellow.

### PRUNES

Unless otherwise priced	Each	10
One year, 3 to 4 feet.....	\$ .50	\$4.00
One year, 4 to 6 feet.....	.65	5.00
Selected trees, each....	.75c-1.00.	

**French**—Medium, egg shaped, violet purple.

**Italian**—Medium, oval, dark purple.

**Hungarian**—Very large, dark red.

**Sugar**—Large, dark purple.

**Giant**—The largest, dark crimson.

**Silver**—Very large.

**New Standard**—(Burbank Production)—The trees are enormous and never failing bearers, and good, healthy growers. Well grown fruits measure four and a half inches the long way. Skin purple, with a heavy blue bloom; flesh amber or honey yellow, fine grained, juicy, yet firmer than most other drying prunes, very sweet and a perfect freestone.

### NECTARINES

Selected trees, each.....75c

**Boston**—Large, deep yellow, bright flush, flesh yellow, very rich and luscious. Best for Oregon, August 1.

**Early Violet**—Medium skin pale, shaded violet; flesh white; good. July.

### BLACKBERRIES

	Each	10	100
Price .....	\$ .20	\$1.50	\$10.00

**Lawton**—Fruit very large, very productive, well and favorably known, Oregon's most popular kind.

**Evergreen**—An Oregon introduction, beautiful lacinated foliage, which it retains all winter, berries long, black, sweet, rich and delicious, ripens from July to November.

**Himalaya Giant**—An exceedingly strong,

rampant grower of a trailing nature; ever-bearing; an enormous yielder. The berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor.

### CORY THORNTLESS BLACKBERRY

The thornless blackberries are of recent introduction. They have proved to be of great value—all that has been claimed for them. No thorns, thereby easier and quicker picked, more productive, more profitable, of trailing nature.

Will out-yeild and out-class any other blackberry. Larger and sweeter and having a flavor more like the wild berry, superb for jelly, jams, wine or served fresh, small core almost seedless, firm and will ship well. Yield well the first year and come into full bearing the second after planting.

#### PRICES

Each, postpaid .....	\$ .25
Per 10, prepaid .....	2.00

### RASPBERRIES (Red Caps)

Prices except where noted. Not prepaid.

	Each	10	100
One year .....	\$ .15	\$1.00	\$5.00

**Cuthbert**—Deep rich red, large and firm; one of the best market berries. Ripens medium to late.

**Marlboro**—Standard, light crimson, large, very firm, good commercial variety, ripens early.

### ST. REGIS RASPBERRY—EVERBEARING

Fruit commences to ripen with the earliest and continuing on young canes until October, many quarts often being picked after the first snow fall. Berries bright crimson, large size, rich sugary with full raspberry flavor. Flesh firm and meaty, a good shipper. Wonderfully prolific. Canes stocky, of strong growth, with abundance of dark green leathery foliage.

Each 15c; 10 \$1.25; postpaid

### RED RASPBERRY—EVERBEARING

**La France** is a rapid, vigorous grower. The berries are firm, twice the size of most; beautiful color, fragrant and delicious in flavor all season long. ..Each 15c; 10 \$1.25; postpaid

### RASPBERRIES (Black Caps)

Prices except where noted. Not prepaid.

	Each	10	100
Two years .....	\$ .25	\$2.25	\$20.00
One year .....	.20	1.50	8.50

**Gregg**—Of good size, fine quality, very productive and hardy. Takes same position among black caps as Cuthbert among the red sorts.

**Plum Farmer**—Large, hardy and productive. One of the very best.

### DEWBERRY

**Lucretia**—Fruit ripens between the raspberry and blackberry. Berries large, handsome, sweet and luscious; trailing vines, strong plants. Each 25c; doz. \$2.50; 100 \$12.50; 1000 price on request.

### GOOSEBERRIES

Federal quarantine prevents shipment of gooseberries into the State of Washington.

	Each	12	1000
One year old .....	\$ .15	\$1.50	Write
Two year old .....	.20	2.00	Write

**Oregon Champion**—Berries large, round and pale green; fine for table use and pies, hardy, strong and a very prolific bearer; most popular and best commercial variety. Low prices by the thousand. Write.

## FRUIT TREES—(Continued)

### CURRENTS

Federal quarantine prevents shipment of currants into the State of Washington.

	Each	12	1000
One year old .....	\$ .25	\$2.50	\$15.00

**Perfection**—New; largest and most prolific currant; bright red, rich flavor, mild sub-acid; no currant can approach in yield or quality this wonderful new currant.

**Cherry**—Very large, deep red, fine for preserving; valuable market variety.

**Fay's Prolific**—Bright red, very sweet, stems are longer than Cherry and fruit hangs on better than most varieties. To be planted with Cherry.

### LOGANBERRY

The loganberry is generally larger than the blackberry, often an inch and a quarter long; color dark red and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry. Fruit ripens early, excellent for jelly or jam. June.

Prices, prepaid, well-rooted plants. Two-year old each 25c; 10 \$2.25; 100 \$20.00. One-year old, each 15c; 10 \$1.35; 100 \$12.50.

## NUT TREES

### GRAFTED WALNUTS

We offer a splendid strain of Franquettes; the best variety for this section, grafted on four-year California Black Walnut—sturdy, thrifty trees with big fibrous roots. The best to plant. Comes to bearing much younger than seedling walnut.

Size	Each
8 to 10 feet .....	\$2.00
5 to 8 feet .....	1.75
4 to 6 feet .....	1.50

### ALMONDS (Nut Bearing)

3 to 5 feet .....each 75c; 10 \$6.00

**I. X. L.**—A vigorous grower and sure cropper producing nuts of large size and handsome appearance; shell thin; most popular commercial.

### CHESTNUT

3 to 5 feet.....each 75c; 10 \$6.00

**American Sweet**—Makes a handsome shade tree; full medium size, sweet and well flavored.

**Mammoth Japanese**—A variety we import from Japan; yields much the best and largest fruit.

**Spanish**—A valuable species both for ornamental use and fruit. It forms a handsome lawn tree and produces much larger fruit than the average American variety.

### FILBERTS

Plant more of them

**Barcelona**—Magnificent large nut from Spain; first quality; can be grown as low standard tree or bush. 2 to 3 feet.

Each 75c; 10 \$5.00

**Du Chilly**—The largest Filbert nut on the Pacific coast. Nuts are broad, 1 inch by 3-4 of an inch; full fleshed and sweet; best grown as low standard. Special prices on large orders. Du Chilly is a good pollinizer for Barcelona. 2 to 3 feet.

Each 65c; 10 \$5.00.

### HICKORY

**Shellbark**—Popular Eastern variety; tree hardy but slow grower. Nuts medium size; very good. Quality excellent. 3 to 5 feet.

Each \$1.50; 10 \$12.50

### BUTTERNUT

A beautifully formed tree bearing a rough coated nut of most attractive flavor, well-known to the middle West. Succeeds fairly well in the Pacific States. Price each \$1.50

## GRAPES

The grape is the easiest of all fruits to

grow. The plants take little room, they thrive despite neglect and every year they produce their wealth of beautiful, health-giving fruit. With its roots in any old nook you can lead it away in any direction to provide a grateful shade for the pump, or for a restful seat, a border for a walk or climbing on the wall or house—East, West, North or South, on hill or in valley, on poor soil or rich, the grape grows thrives and bears; it never disappoints. Plant a few vines or a large vineyard—make your own grape juice, jams, marmalade, jelly, and have plenty to eat fresh from your own vines.

**Campbell's Early**—Berries large, nearly round, black, with light purple bloom; flesh rather firm and tender; quality rich, sweet, slightly vinous; a strong and vigorous grower. August. Price each 25c

**Concord**—Large, black grape; bunches compact; berries round, sweet and pleasant. August. Each 25c; 12 \$2.50

**Delaware**—One of the finest of our native grapes; grows freely and is perfectly hardy ripens early; berries small, light red. August. Each 25c; 12 \$2.50

**Eaton**—Vigorous grower; very productive. Bunches large, compact. Fruit large, round, black. September. Each 25c

**Lucile**—Early red. A dark red grape, medium to large berry and bunch, excellent quality, keeps well and ships well. In vigor, health, hardiness, productiveness, it is surpassed by no other variety, and it is practically immune to fungous diseases. It is one of the most beautiful hardy grapes and it sells at high prices. Should be in every home vineyard. Each 25c; 12 \$2.50

**Moore's Early**—Bunch medium; berry large, resembling Concord, but more pulp and is earlier. Each 25c; 12 \$2.50

**Niagara**—Bunch medium; berry large, roundish, uniform; skin thin but tough; pale yellow; flesh tender and sweet; vine vigorous and productive; one of the best white grapes. September. Each 25c; 12 \$2.50

**Worden**—Bunch very large and compact; berry large, black; an improved Concord. Late August. Each 25c; 12 \$2.50

**Flaming Tokay**—Large, light red; flesh firm and sweet; fine table sort and a good shipper. September. Each 25c; 12 \$2.50

## ROOTS AND PLANTS

### ASPARAGUS ROOTS

We can furnish the varieties listed below in selected one-year old roots. We are not handling two-year or older stock, the one-year old roots are used by all experienced growers and are the best size for transplanting.

**Pedigreed Washington**—New rust resisting variety. Dozen 25c; 100 \$1.00; 1000 \$7.00

**Palmetto**—One of the most popular varieties grown and especially good for shipping and canning. Shoots are light green, slightly tinted pink.

One-year old plants postpaid. Dozen 30c; 50 50c; 100 \$1.00. By express or freight, \$7.00 per 1000.

### HORSERADISH

Sets planted in May, small end down, with the tops one inch below the surface, in rich, well-cultivated soil, will form radish of large size in one season's growth. Of the common variety, we offer small roots, 8 for 20c; doz. 25c; 100 90c, postpaid. By express or freight, 100 75c. Write for price in quantity.

### RHUBARB ROOTS

Each 15c; doz. \$1.50, postpaid. By express, 25 \$2.00, not prepaid.

# All-Year Treatment Against Insects and Disease Enemies of Garden and Grove

## VEGETABLES

**Asparagus Rust**—Spray with Dry Lime Sulphur or Fungi Bordo. Use according to directions on package.

**Cut Worms**—Mix 1 lb. Paris Green in 10 lbs. of bran. Add 1 quart black strap molasses and 2 lemons chopped fine. Mix the whole to a crumbly mass and scatter in the field.

**Grass Hoppers**—Same as for cut worms.

**Mildew on Peas**—Spray with Fungi Bordo. Follow directions on the package.

**Potato Diseases**—For scab and other fungi on potatoes, dip the tubers in a solution of 1 pint formaldehyde and 25 gallons of water allowing them to soak 2 hours.

## Formula for Cutworm and Grasshopper Poison for Five Acres

Paris Green (or white arsenic).....1 lb.  
Molasses (cheap blackstrap preferably) 2 qts.  
Lemons (or oranges) ..... $\frac{1}{2}$  doz.  
Water ..... 4 gals.  
Bran (or alfalfa meal) .....25 lbs.  
Grind lemons with meat grinder; mix all ingredients thoroughly. Spread thinly to avoid danger to livestock. Best spread in the late afternoon.

**Tomato Worms**—Pick off by hand or before fruit is half grown. Spray with Arsenate of Lead solution 3 to 4 level tablespoonfuls to 1 gallon of water.

**Tomato Blight**—Spray with Fungi Bordo, using according to directions on the package.

**Slugs**—Dust with Hammond's Slug Shot or Snarol.

**Melon Blight**—Spray the hill freely with Fungi Bordo so that the liquid will follow the stem several inches below the surface. This should be done as a precaution as well as for a remedy.

**Climbing Insects**—To prevent ants and other insects from entering trees, apply Tree Tanglefoot.

## HOW TO KILL WEEDS IN LAWNS

Mix  $1\frac{1}{2}$  pounds Sulphate of Ammonia,  $\frac{1}{2}$  pound Iron Sulphate, and 12 pounds plain sand. Mix well and distribute evenly over the entire lawn. It gives the best results if the grass is cut a few hours before applying so that the weeds will be exposed to the action of the chemicals. Results are the best on a hot, bright day.

## Preparation and Care of the Vegetable Garden

**Prepare the Soil.** To get good results the soil should be thoroughly drained; if low and wet put in a tile drain; it will pay. Cover the ground with well-rotted barnyard manure, a good covering of sheep manure, or a high-grade commercial fertilizer. This lightens the soil, increasing its power to hold water. Rake in a thin coating of hydrated lime (in fall or spring) on soils that crack when drying. It improves the physical condition of the soil, increases growth and healthfulness of crops.

Dig or plow the ground deeply (8 to 10 inches) without disturbing the subsoil, and have all of this loose ground **thoroughly pulverized**, then when ready to plant or sow, rake the surface with a Planet Jr. Pulverizer or with an iron rake, making it as fine and level as possible.

Preparations of the soil takes time and labor, but pays in the end, as it makes the sowing and cultivating easier and will give you larger and better crops.

**Sowing.** Radishes, onions, lettuce and other small seeds should be sown very shallow, not over  $\frac{1}{2}$  inch deep, larger seeds about 1 inch deep. Peas and beans 1 or 2 inches deep. In dry, hot weather sow and press down the soil 1 inch deeper than in wet weather.

**Planting.** Set out tomato, pepper, eggplant, etc., as soon as all danger of frost is past. Showery weather is best for this work or late in the afternoon to avoid the effects of the hot sun immediately after planting. Keep the plants thoroughly watered for a few days, and, where possible, keep shaded for two or three days until the plants take root.

## Imported Hardy Japanese LILIES

Lilies planted outdoors during the fall or early spring flower each year from June to October. After bulbs are set out they should remain undisturbed for five or six years. They will increase in size, beauty and number of flowers, with practically no attention, our coast climate being perfectly suited to their requirements and once established, they rival the famous product of Japan. Place bulbs on side on 2-inch layer of sand and cover with 4 to 6 inches of soil. Japanese Lily bulbs are postpaid.

**Auratum (Golden Banded Lily)**—The handsomest and best known of the Japanese lilies. Immense ivory-white flowers with yellow and crimson dots; in the center of each petal is a gold band fading at its edges into white; very fragrant. Bloom June to October. Large bulbs, each 35c; dozen \$3.25.

**Auratum Platyphyllum**—Similar in color to Auratum, heavily spotted, but much larger. Mammoth bulbs, each 50c; doz. \$4.50.

**Henry**—Beautiful orange-yellow flowers with green band, very effective, hardy. Each 50c; doz. \$4.50.

**Speciosum Album**—Pure white, flowers free-ly. Large bulbs, each 50c; doz. \$4.50.

**Speciosum Magnificum**—Similar to Melpomene but more vigorous and blooms earlier. Each 35c; doz. \$3.50.

**Speciosum Melpomene**—Has deep carmine flowers spotted red. Each 35c; doz. \$3.50.

**Speciosum Rubrum**—White with dark rose spots. The most popular of the speciosum varieties. Hardy, free bloomer. Large bulbs, each 35c; doz. \$3.50.

**Tigritum Splendens (Improved Single Tiger Lily)**—Has very large flowers of excellent form, color orange-salmon with dark spots; hardy and a free bloomer. Large bulbs, each 20c; doz. \$2.00.

## LILIUM CANDIDUM

(Also known as Madonna, or St. Joseph's Lily)

This is the ever popular, fragrant snow white, hardy garden lily. It grows 4 to 5 feet high and blooms in the open ground in June. The finest obtainable; should be planted early. Mammoth bulbs, each 35c; doz. \$3.50; select bulbs, each 25c; doz. \$2.50; prices postpaid to fourth zone.

**"Lilium Regale or Myriophyllum"**—The most interesting ever discovered. Perfectly hardy, of medium height, bearing 5 to 8 large handsome blooms. Color white, outer petals shaded with pink, throat suffused primrose-yellow. Delightfully perfumed. Bulbs, postpaid, 1-yr. size each 35c; 2-yr. size 65c; 3-yr. size \$1.00,

## BEAUTIFUL HARDY CLIMBING VINES

### POLYGONUM AUBERTI (Silver Lace Vine)

One of the most desirable flowering climbers we have ever grown. Of strong, vigorous, rapid growth and producing throughout the summer and fall long graceful sprays of small, white, delicate flowers. Clean, neat foliage. Perfectly hardy. Makes a spreading 15-foot growth the first season, and to the top of the house the next season, and is cut back to eaves each fall. Always free of insects. Each 75c; extra strong roots \$1.00.

### CINNAMON VINE

A beautiful vine of rapid growth, suitable for porches, trellises, etc., pretty white flowers of cinnamon-like fragrance. Perfectly hardy. Vines die in the fall but come up rapidly early each spring. Small roots 20c; 3 for 50c; large 25c; 3 for 65c.

### HONEYSUCKLE

A beautiful climber, rapid grower and very desirable. Flowers very fragrant.

Your choice. Each, small 75c; large \$1.00

**Halleanna**—Very popular; almost evergreen; flowers white, passing to yellow.

**Belgica (Monthly Fragrant)**—Flowers are large; color red, and yellow; blooms all summer.

### WISTARIAS

**Sinensis Blue**—A very rapid growing, hardy climber; lovely long panicles of pale blue flowers, produced in wonderful profusion.

Each \$1.00; strong vines \$1.50

**Sinensis Alba**—Like the preceding, but with beautiful white flowers in long panicles. Each \$1.00. Strong vines \$1.50.

**Multijna**—Extra long panicles of deep blue flowers. Each \$1.50

### DUTCHMAN'S PIPE

**Aristolochia Siphon**—A handsome, bright green luxuriant vine, having large foliage and brownish, pipe-shaped flowers. A strong rapid growth. Each 75c

### JASMINE

**Nudiflorum**—Drooping branches, enveloped with bright yellow flowers before leaves appear. Each \$1.00

### DUDZU VINE

**Dudzu Vine (Pueraria Thundergiana)**—Large foliage and dense shade, growing 50 feet in one season. Flowers plentiful in August, rosy-purple, pea-shaped, in small racemes. Ea. 50c

### TRUMPET VINE

**Bignonia Radicans (Trumpet Vine)**—Strong climber; deciduous, flowers orange scarlet. Mid-summer. Each 50c

**Boston Ivy**—The popular climbing plant for covering brick, stone or cement walls, etc. Foliage rich olive green, turning to autumn tints in the fall. Strong plants 50c; extra strong 75c.

**Virginia Creeper**—For covering trellises, arbors, etc., large, deep green foliage, red berries in the fall. Strong plants 50c; extra strong 75c.

**English Ivy**—Thick, leathery evergreen leaves. Each 35c

### CLEMATIS

Large flowering varieties, they are moderate growers and make a beautiful display.

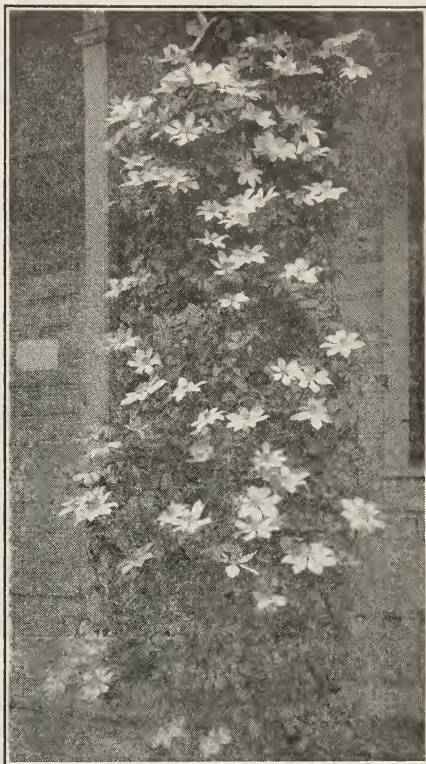
Your choice \$1.50

**Henryi**—Very large pure white flowers in great freedom.

**Jackmani**—Rich purple flowers in large clusters. The most popular variety.

**Madame E. Andre**—Wine red flowers of medium size, produced freely.

**Paniculata (Sweet-Scented Japan Clematis)**—Very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy-green foliage. Flowers are small size, pure white and borne in profusion in September and October. Each, 1-yr. roots, 35c; 2-yr. 50c; 3-yr. extra strong \$1.00.



### PEAT MOSS

Imported granulated. A soil conditioner, not a fertilizer.

Granulated Peat Moss or Mull is a brown colored virgin soil, formed years ago by the growth and decay of mosses, aquatic plants, decomposed vegetable matter taken from the bottom of drained fresh water lakes. It is dried and packed under pressure into burlap wrapped bales about 3½ feet long and 2 feet square, weighing about 175 pounds. It's being shipped to America from Germany and Holland in car load, yes, even boat load lots. It's a product nurserymen, horticulturists, florists, and gardeners have wanted for years. It is a moisture retaining humus, an important aid in saving soil fertility. Adds humus to the soil, making the ground more pliable and improves the general texture and condition. Conserves moisture in light, sandy soil; contributes effective drainage and lightens heavy soil.

Used in landscape work, lawns, vegetable gardens, flower beds and in potting soil, as a mulch over seeds or plants. It is really a wonderful factor in many ways. In all garden books and magazines, especially of English origin, you read about the great value of peat. We can supply you in original bales, in coarse or fine grade, or we have it reground and put up in 2-bushel sacks. Prices: Original bale \$2.50. Fine ground in 2-bushel sacks \$1.00

# BROAD-LEAVED EVERGREEN TREES AND SHRUBS

## ABELIA

A beautiful, low-growing, bushy, small-leaved evergreen, with dark green, glossy leaves, bearing small clusters of beautiful pink to white flowers from June until late fall. Very popular. Nice plants \$1.00; specimens \$1.50 to \$2.50.

## AUCUBA

**Japanica**—Japan evergreen, with shining foliage and red berries. Each \$1.00 and up  
**Japanica Variegata**—Green and yellow foliage; very showy. Large plants for immediate effect. Each \$2.00 to \$3.00

## BOXWOOD (Buxus)

**Pyramidal Boxwood**—Cone shaped plant of great beauty. 2 to 2½ feet each \$5.00; 2½ to 3½ feet each \$6.00.

**Globe Boxwood**—Trimmed in shape of a globe. Each \$2.50 to \$5.00

**Boxwoods for Hedges and Borders**—Write for prices on quantity desired.

## BROOM

**Scotch**—Branches drooping covered in spring with bright yellow flowers. 2 to 3 feet, \$1.25.

**White Flowering**—Same as Scotch; flowers white. 3 to 4 feet, \$1.00

**Spanish**—Upright, branches leafless, superior to Scotch. Blooms continuously throughout the summer. 3 to 4 feet 75c

## CAMELLIA

**Camellia**—Small trees with shining waxy leaves, and beautiful waxy flowers, very much resembling a small rose. We are only able to offer these in assorted colors. 1½ feet high, each \$2.50.

## DAPHNE (Odora)

Japanese shrub with waxy light green foliage, pink and white, with flowers in early spring of wonderful fragrance. Well rooted. No color guarantee. Each \$2.00 to \$3.50.

## COTONEASTER

**C. Horizontalis (Trailing Coteaster)**—Low growing with horizontal branches, dark leaves. Fruit bright red. Each \$1.50

**C. Franchetti**—A large sized shrub of graceful droopy habit, covered with a mass of red berries in fall. Each 75c to \$1.50

**C. Simonsii**—A pretty shrub of upright growth, bright leaves and white pinkish flowers, covered with large red berries all winter. Fine for massing. Each 75c to \$2.00

## HOLLY (Ilex)

**English (Aquifolia)**—Prickly, dark green foliage; grows moderately fast, covered during the winter months with bright red berries. Prices, berry-bearing trees, per foot, \$1.00; nice trees, \$2.50 to \$6.00; ordinary stock, per foot, 75c; nice trees, \$1.50 to \$3.00.

## LAUREL

**English**—Handsome, large-leaved, shining foliage. Excellent for large hedges or screens or as single specimens. Each 35c to \$2.00; extra large, \$3.00 to \$5.00.

## LAURISTINUS

Luxuriant dark green foliage, with clusters of small white flowers in winter. 1 to 2 feet. Each \$1.00 and up

## LONICERA

**Nitida (Evergreen Bush Honeysuckle)**—New evergreen shrub, slender branches with bright glossy foliage. Excellent for massing or tub plant. There is no better evergreen shrub for the price. Each \$1.00 to \$1.50; Trimmed pyramidal shape, \$2.50.

## OREGON GRAPE

**Mahonia Aquifolia**—Official flower for the state of Oregon. Each 75c to \$2.00

## PORTUGAL LAUREL

Beautiful slow growing laurel, dark green glossy leaves, small, very compact. 18 to 24 inches. Each \$2.00; 24 to 30 inches, Each \$3.00.

## PRIVIT (Ligustrum Ovalifolium)

**Golden Privit**—Beautiful variegated shrub to plant among evergreens, giving a wonderful effect. 2 feet. Each \$1.00 to \$1.50.

**California Privit**—Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants. 18 to 24 inches, 10 plants \$1.00, 100 for \$7.50; 24 to 30 inches, 10 plants \$1.25, 100 for \$10.00.

## PYRACANTHA

**Evergreen Thorn**—Tall growing, long narrow leaves, small white flowers, followed by orange berries all winter. We have orange-scarlet and orange-yellow berried plants. Each 75c to \$1.50

## RHODODENDRON

Grafted varieties. Very scarce. Each \$8.00; seedlings, Each \$3.00.

## VERONICA

These are dwarf shrubs of rather recent introduction, but coming into great favor in landscape planting. They are from 10 inches to 3 feet in height, with small evergreen foliage and white, pink and red flowers. Price 75c to \$2.00.

**Buxifolia**—Very dwarf growth, light green foliage. Each 75c to \$1.00.

**Cupressoides**—Grows to 3 feet. Fine foliage, resembling a conifer.

**Glaucophylla**—With pointed leaves of a glaucous color, 2 feet.

**Traversii**—The best known variety. White flowers.

## ORNAMENTALS—SHADE TREES

Trees 6 to 8 ft. and about 1 in. caliper unless otherwise stated.

Ash, white ..... \$1.50

Birch, Eup. .... 1.50

Birch, Cut-leaf, 4 to 6 feet ..... 2.50

Boxelder, Sil., 4 to 6 feet ..... 1.50

Catalpa, West ..... 1.50

Catalpa, Um., 5 to 6 feet ..... 3.00

Cherry, Japanese Flg., 3 to 5 feet ..... 1.50

Crab, Flowering, Bechtel Dble., 3 to 4 ft. 1.25

Crab, Scheidecker, 3 to 4 feet ..... 1.50

Dogwood, Pacific ..... 1.50

Elm, American ..... 1.50

Elm, English ..... 1.50

Goldenchain, (Laburnum) ..... 1.50

Horsechestnut ..... 1.50

Linden, 4 to 6 ft., (American or European) 1.00

Locust, Com. Blk. .... 1.00

Maidenhair Tree, 3 to 5 feet ..... 1.00

Maple, Oregon ..... 1.50

Maple, Norway ..... 1.50

Maple, Silver ..... 1.50

Maple, Sycamore ..... 1.50

Maple, Sugar ..... 1.50

Mountain Ash, Eup., 5 to 6 feet ..... 1.25

Mulberry, Russian ..... 1.00

Oak, Common Red, 8 to 10 feet ..... 2.00

Oak, English ..... 1.50

Oak, Pin ..... 1.50

Olive, Russian, 3 to 4 feet ..... 1.00

Plum, Dble. Flg. .... 1.50

Plum, Purp. Leaf, 3 year ..... 1.50

Plum, Purp. Leaf, 1 year ..... 1.00

Persimmon, Jap., 5 to 6 feet ..... 1.50

Poplar, Balm of Gilead ..... 1.50

Poplar, Carolina ..... 1.00

Poplar, Lombardy ..... 1.25

Poplar, Silver ..... 1.50

Plane, Tree (Sycamore) ..... 1.50

Thorn, White ..... 1.50

Thorn, Red ..... 3.00

Tulip, Tree, 3 to 4 feet ..... 1.00

Willow, Babylon, 4 to 6 feet ..... 1.25

Willow, Golden ..... 1.50

Willow, Wisconsin ..... 1.25

## DECIDUOUS SHRUBS

ALMOND (*Prunus*)

**Pink Flowering (*P. Japonica*)**—Well known early dwarf shrub. Double clear pink little roses festoon the gracefully bending branches. Each \$1.50

ALTHEA (*Rose of Sharon*)

Late summer blooming shrub that continues on up into the fall when color is scarce, bearing flowers that closely resemble the Hollyhocks in color and size. Colors pink, white or red. Each \$1.00

## AZALEA

**A Mollis**—Low growing shrub that in the early spring is covered with gorgeous flowers before the leaves appear. Each \$2.50

## BARBERRY

**Thunbergii**—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in autumn. Bright scarlet berries all winter. Each 60c; 75c and \$1.00

BUDDLEIA (*Butterfly Bush*)

**Magnifica**—Lovely long spikes of lilac-colored flowers. Summer and fall. Attracts butterflies. Small plant, 50c; large, 75c.

## DEUTZIAs

**Lemoinei**—Flowers very large and produced in broadbased, cone-shaped heads of from 20 to 30 flowers each of purest white, 3 to 4 feet. Each 75c

**Pride of Rochester**—Flowers very early, double, pure white, tinged with blush, great profusion. Grows 6 to 8 feet. Each 75c

**Gracilis Rosea**—Dwarf growing with sprays of pretty light pink flowers late in the spring. A beautiful shrub. Each 75c

FORSYTHIA (*Golden Bells*)

**Intermedia**—Blooms early in spring, before the leaves appear, when it is covered with golden bell-like flowers, 2 to 3 ft. Ea. 60c-75c

**Fortunei**—Upright, makes fine single specimens, golden flowers in profusion in April. Each 60 to 75c

## HYDRANGEA

**Paniculata Grandiflora**—Immense panicles of bloom from July to November, creamy white, pink flush. Prune back in early spring about half of previous year's growth. Hardy everywhere for cemetery planting. 2 to 3 feet, 75c; 3 to 4 feet \$1.00.

**Otaksa**—One of the most popular lawn plants. The flowers run in shades of pink, blue and white, mineral in soil often changing them to two or three shades in one. Fine for shady places. Each 75c to \$1.50

LILAC (*Syringa Vulgaris*)

**Common Purple**—Very fragrant, an old favorite. 3 to 4 feet, 75c; 10 \$6.00.

**Common White**—Same as above, flowers white. 3 to 4 feet, 50c; 10 \$4.50.

MOCK ORANGE (*Philadelphus*)

**Grandiflora**—Flowers large; slender twig habit. 3 to 4 feet. Each 50c; 10 \$4.50

**Hybrid**—2 to 3 feet. Price 50c

## QUINCE

**Japonica (Japan Flowering)**—Blossoms vary from the richest scarlet to the most delicate blush color; the fruit is deliciously fragrant, but not edible. 2 to 3 feet, each \$1.00

## SNOWBALL

**Common**—Flowers globular, pure white, in May. 3 to 4 feet, each 75c

**Japanese**—Flowers pure white, delicate large globular heads in May 2 to 3 ft, ea. \$1.00

## SPIRAEAS

**Spiraea Thunbergii**—Charming spiraeas with graceful form and abundant blooms. 75c

**Billard's (*S. Billard*)**—Flowers red in dense spikes, blooms most of summer. Each 75c

**Van Houtte's Bridal Wreaths (*S. Van Houttei*)**—Very graceful, flowers white in round clusters. May. Each 75c

**Crimson—Anthony Waterer (*S. Bumalda*)**—A most desirable variety, having deep red flowers. Each 75c

## WEIGELIA

**Candida**—Flowers white, bush tall. Ea. 75c

**Rosea**—Flowers red, one of the best. Slightly dwarf. Each 75c

**Variegated**—Leaves become silver white. Each 75c

## EVERGREENS

## ARAUCARIA

**Imbricata (Monkey Puzzle)**—A fine tree of regular pyramidal form, leaves bright green, overlapping each other, 8 to 10 in. Each \$1.00

## ARBORVITAE

**American**—18 to 24 inches. Native, known as white cedar. Foliage bright green, yellow-green underneath, brown and bronze in winter. Each \$2.50

**Golden**—Elegant, habit regular, foliage tinged with gold in spring. Each \$3.00

**American Variegated Pyramidal**—Foliage dark green. Each \$3.00

## CEDRUS

**Japanese Cedar (*Cryptomeria Elegans*)**—Beautiful delicate green foliage and graceful habit, color changing reddish brown in winter. Each \$1.00 to \$2.50

**Deodar or Indian Cedar (*C. Deodara*)**—Very handsome, branches drooping, foliage silvery green. Very popular. Each \$2.50

CYPRESS (*Cypressus*)

**Alumii**—Handsome pyramid shaped conifer. Foliage greenish-blue. ... Each \$2.00 to \$3.00

**Cypress Lawson's (*Chamaecyparis Lawsoniana*)**—Graceful and conspicuous, branches horizontal, slightly pendulous, foliage dark green. Each \$1.00 to \$2.50

**Italian**—Bright green. Very compact in growth, nothing finer in upright type. 2 to 3 feet, each \$2.50; 3 to 4 feet, each \$3.00.

HEMLOCK (*Tsuga*)

**Western (*T. Hookeriana*)**—Very beautiful and appealing, branches pendant and foliage deep green. Each \$2.50

JUNIPER (*Juniperus*)

**Irish (*J. Communis Hibernica*)**—Pyramidal in form, foliage silvery gray. Very striking. Each \$2.00

## RETINOSPORA

**Plumosa**—An exceedingly handsome, acorn-shaped evergreen of medium tall growth, from Japan, with feathery, light green foliage. Each \$3.00

SPRUCE (*Picea*)

**Norway (*P. Excelsa*)**—A lofty, rapid grower, branches drooping. Fine for hedge or wind break. Each \$1.00 to \$2.00

**Colorado (*Pungens*)**—The original form of the famous Blue Spruce, foliage sometimes quite blue, mostly light green. A vigorous grower and hardy, making fine specimens in a broad based, sharply defined pyramid form, foliage rigidly angular with sharp needles very densely set. Each \$3.50

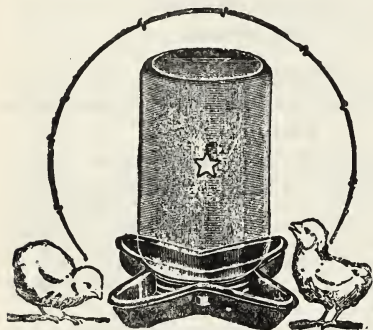
# POULTRY SUPPLIES AND REMEDIES



## A DISINFECTANT WHITE PAINT

**Health Paint** is a white paint and a powerful disinfectant in powder form. Ready to use when mixed with water. Easily and quickly applied to wood, brick, stone, cement, etc., and over white-wash. One pound will cover 100 square feet.

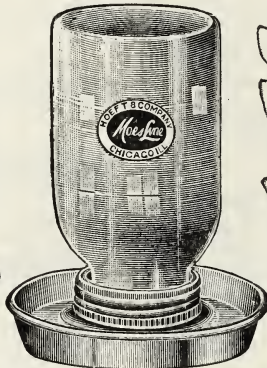
Prevents the start and spread of contagious diseases among poultry and other livestock. An effective aid in getting rid of lice and other parasites. You can spray it, brush it, or dust it. Will not clog a sprayer. Doesn't spoil by standing, is always ready, and retains its strength. It dries out a pure white, and does not blister or flake off. Has no superior as a dusting powder for fighting lice and mites on poultry, cattle, horses, etc. A very effective deodorant for dropping boards, floors, stables, kennels, garbage cans, etc. Low in cost and an excellent disinfectant white paint. **5 lb. carton 85c; 10-lb. carton \$1.50.**



Our Star Chick Fountain and Feeder, made in one size only, which will fit any Mason jar. (We do not furnish the glass jars).

**Price, each 10c**

Add postage if wanted by mail



Moe's Round Mason jar Fountains, made in 1 size and fits any Mason jar.

**Price, each 10c**

Add postage if wanted by mail

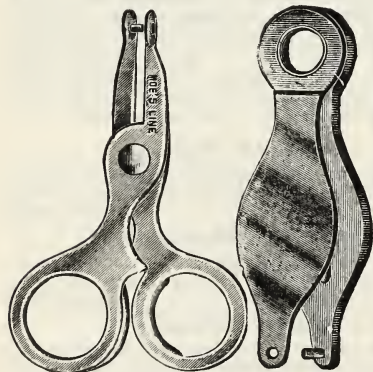


## MOE'S ROUND BABY CHICK FEEDERS

The most popular baby chick feeders on market. Chickens cannot upset it. Made in two popular sizes.

**No. 11**—Moe's Round Feeders, diameter 6 in. with 8 feeder holes. **Each 15c.**

**No. 12**—Moe's Round Feeders, diameter 8 1/4 in., with 12 feeder holes. **Each 25c.** Add postage.

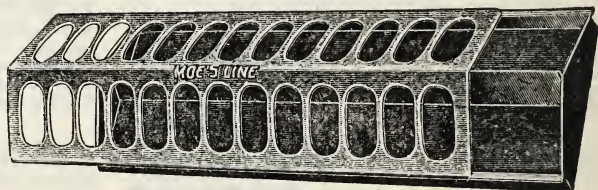


### No. 39 Ideal Punch

Moe's Ideal Punch, new improved punch, scissor type. Works easily, cuts clean and does not pinch the foot. Nickel-plated finish. **Each 35c.**

### No. 38-Moe's Poultry Punch

Punches a clean hole in web between toes and will not bruise foot. Guaranteed to work perfectly. **Each 15c**



## MOE'S DOUBLE-FEEDING TROUGH

For Chicks and Growing Stock  
Made of best quality galvanized iron, accurately stamped with dies. No sharp or rough edges to injure chicks. Sliding top. Easy to fill and clean. Made in 3 sizes.

	Length	No. of Holes	Each
No. 58	12 in.	18	\$ .30
No. 59	18 in.	26	.40
No. 60	24 in.	36	.50

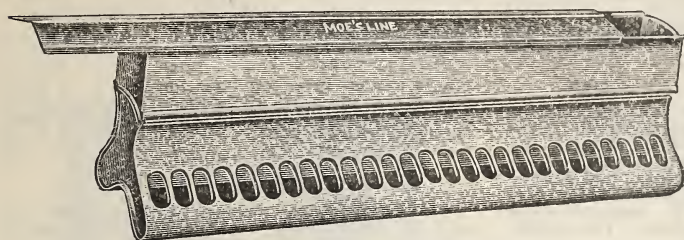


## HEAVY TIN BUTTERMILK FEEDERS

Feeding troughs in tin plate, sliding top, easy to clean. No seams, rivets or solder. Clean, sanitary feeders.

	Length	No. of Holes	Each
No. 137	10 in.	10	\$ .30
No. 138	20 in.	20	.40

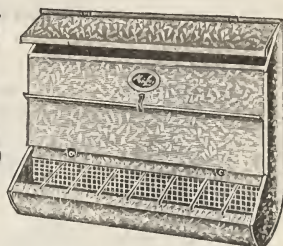
# POULTRY SUPPLIES AND REMEDIES—(Continued)



## MOE'S ONE FORTY ONE FEEDER

No. 141—Feeder, capacity 17 quarts, length 35 in., width 8½ in., height 7 in. 27 openings on each side, so that 54 chicks can feed at one time. Packed one in a carton. Shipping weight 8 lbs. each. Each \$1.70.

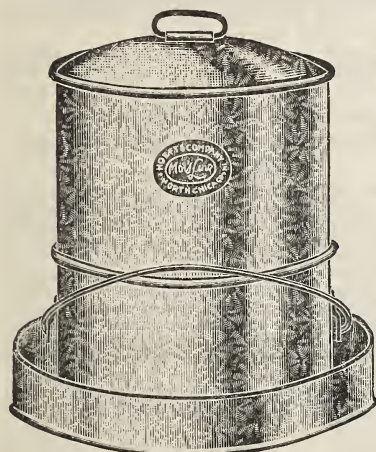
No. 140—Feeder, capacity 10 quarts, length 21 in., width 8½ in., height 7 in. 16 openings on each side, so that 32 chicks can feed at one time. Packed 6 in a carton. Shipping weight 22 lbs. per carton. Each \$1.20.



## DRY MASH HOPPERS

Moe's Dry Mash Hoppers are made of heavy, tight-coated, best quality galvanized iron.

No.	Ht. In.	Width In.	Cap. Qts.	Price Each
35 ...	19	8½	10	\$1.50
36 ...	19	12	14	2.05
13 ...	19	18	22	2.35
37 ...	19	24	32	3.00



## MOE'S "TOP-FILL" FOUNTAINS

Easy to fill and keep clean

Fill the fountain in the morning and the chickens have an all-day's supply of pure water at just the right temperature. The best and most popular fountain on the market. Made in three sizes.

	Capac.	Price Ea.
No. 1	1 gallon	\$1.60
No. 33	2 gallons	2.60
No. 34	4 gallons	3.10



No. 4



No. 3



No. 2



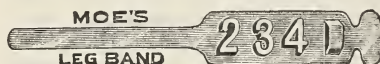
No. 1

- No. 1—For Baby Chicks.
- No. 2—For Leghorn Chickens.
- No. 3—For Rhode Island Reds or Rocks.
- No. 4—For Turkeys or Geese.

Durable, practical, economical. Provide instant identification without handling birds. You can identify birds as far as you can distinguish the colors, which will tell you the yearling hens and which are older, your different matings, and so on. Fine for baby chicks. Made in ten colors—red, white, pink, amber, light and dark blue, black, purple, green, garnet. Do not fade and weather proof. Order by number—state color wanted.

12 bands	.....	\$ .15
25 bands	.....	.25
50 bands	.....	.40
100 bands	.....	.65
500 bands	.....	3.00
1000 bands	.....	6.00

Postpaid



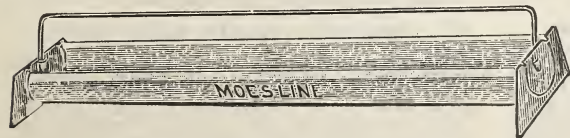
## MOE'S ALUMINUM LEG BANDS

No. 130—Aluminum, with extra large raised numbers. Easy to read, adjustable for any size fowl. Quickly applied. 12 15c; 25 25c; 50 40c; 100 65c; 500 \$3; 1000 \$5.50

## MOE'S GRIT AND SHELL BOXES

The feeding of grit, ground shells and charcoal is recognized as an essential part of the diet, to keep fowls in healthy, prime condition. There is no more economical method of supplying grit, etc., than with these practical inexpensive compartment boxes. Can also be used as feed hoppers for little chicks. Made of heavy galvanized steel in three sizes. No solder used in their construction.

- No. 45—Grit Box for baby chicks. Has two compartments. Ea. 45c
- No. 9—Grit Box. Has three compartments. Each 85c
- No. 90—Grit Box. Has four compartments. Each \$1.20



## MOE'S DIXIE FEEDING TROUGH

Made of best quality galvanized steel, accurately stamped with dies. Round troughs are easily filled and cleaned, and have a heavy in flange to prevent food waste. Fitted with a heavy wire top guard to keep the chicks out of the feeder, and this guard is adjustable so it can be raised as chicks grow, making these feeders suitable for chicks several weeks old.

No. 460—Moe's Dixie Feeder. Length 18 in. Price ea. 25c

No. 462—Moe's Dixie Feeder. Length 30 in. Price ea. 40c

# Dr. Hess' Stock and Poultry Preparations

## Prescriptions of Dr. Hess (M.D., D.V.S.)

### DR. HESS POULTRY PAN-A-MIN

Pan-A-Min has been known to poultry raisers for more than 30 years as Dr. Hess Poultry Pan-a-ce-a. It is now a greatly improved product. More minerals have been added. It contains new medicinal ingredients and other active ingredients in different proportions. The improved product has been given a new name. Dr. Hess Poultry Pan-A-Min means Pan-a-ce-a plus.

Pan-A-Min is of high value to moulting hens in egg production, in reducing chick mortality, in bone and feather growth and in maintaining health. It does not take the place of feed and no feed can take the place of Pan-A-Min. The cost is less than a penny per hen per month.

150 Hen size (25-lb. pkg.)	\$3.50
90 Hen size (15-lb. pkg.)	2.25
40 Hen size (7-lb. pkg.)	1.25
20 Hen size (3-lb. pkg.)	.65

### FOR WORMS IN POULTRY

Dr. Hess Poultry Ver-Mi-Trol is a flock treatment. No individual handling of birds is necessary. It is simply given with the feeds in two 10-day courses, three weeks apart, with Dr. Hess Poultry Pan-A-Min fed regularly.

As a preventive measure, to avoid worm infection, a twice-a-year flock treatment, early summer and late fall, is strongly recommended.

300 Hen size (25-lb. pkg.)	\$7.50
125 Hen size (10-lb. pkg.)	3.25
50 Hen size (4-lb. pkg.)	1.50
20 Hen size (1½-lb. pkg.)	.60

### DR. HESS POULTRY TABLETS

(Formerly Roup Tablets)

While there is no absolute cure for roup, Dr. Hess Poultry Tablets are of high value in treating locally the swelling incident to the disease. The tablets are used as a local antiseptic and to medicate the drinking water. Thus used, they aid in preventing spread of the disease. Once the tablets are in solution, they remain so permanently. The water is evenly medicated and requires no further stirring.

Package (225 tablets)	\$1.00
Package (100 tablets)	.50

### DR. HESS CHICK TABLETS

(Formerly White Diarrhea Tablets)

Most diarrhea conditions in chicks, often mistaken for bacillary white diarrhea, are the result of improper feeding or brooding, and can be corrected by Dr. Hess Chick Tablets. These tablets are a bowel astringent to be given in drinking water.

Package (225 tablets)	\$1.00
Package (100 tablets)	.50

### DR. HESS ANTISEPTIC POWDER

A ready help in emergencies, deserves a place on every stable shelf. For treatment of wire cuts, scratches, galls, and wounds. Quickly forms coating over wound and starts healing. Equally valuable for household use, for scalds, burns, chaffing. An excellent shaving powder—soothing, cooling, relieves soreness.

4-oz. package	\$ .25
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### DR. HESS INSTANT LOUSE KILLER

Kills lice on stock and poultry. Easily applied by putting in dust bath. Hens work it down into the feathers where lice are. It kills lice on contact. It is also applied directly to the fowl if badly infested.

Kills lice and bugs on cucumber, squash and

melon vines, slugs on rose bushes. It is non-poisonous, so may be used on edible plants with safety. Comes in handy sifting top cans.

2½-lb. package	\$ .60
1-lb. package	.30

### DR. HESS STOCK TONIC

This product has been serving the dairy interests of the country for upwards of 35 years.

A summary of many comparative tests, covering three whole years, shows that cows receiving Dr. Hess Stock Tonic produce, on the average, 54.9% more profit than cows not getting the tonic.

The tonic has been recently improved in keeping with latest scientific discoveries and feeding practices. All the minerals proved necessary to the heavy producing dairy cow have been added. This conditioner and mineral supplement whets the appetite, sustains the milk flow well through the lactation period and is a valuable aid in calving.

25-lb. package	\$3.50
15-lb. package	2.25
5-lb. package	.25

### DR. HESS HOG SPECIAL

A conditioner and mineral supplement for hogs only

Dr. Hess Hog Special is an appetizer, laxative and diuretic—also a perfectly balanced mineral supplement. It supplies, in all-sufficient quantities, every mineral necessary to the hog's growth and thrift.

Hog Special makes possible common-sense worm control. It is given in the feed. No fasting or individual dosing is necessary. By giving continuously in the feed, worms are combated by vermifuges and vermicides that are always in the system. It greatly retards worm reinfestation.

The cost of using Hog Special is only 12½ cents per pig per month. Put up in 25-lb. and 15-lb. cartons.

25-lb. package	\$3.50
15-lb. package	2.25

### DR. HESS DIP AND DISINFECTANT

A dip that makes a perfect milk-white emulsion—never any streaks or settlings. Remains in emulsion indefinitely. It is a standardized product with an established carbolic acid coefficient; always uniform in strength, no matter where purchased.

Because of its strength, its uniformity, its perfect emulsifying qualities, with its germ and insect killing powers, it is a most inexpensive dip to use. Valuable about barns and stables—kills hog lice and other parasites and keeps down foul odors. 1 gal. can \$2.25; ½ gal. can \$1.25; ¼ gal. can 75c.

### DON SUNG MAKES HENS LAY

We guarantee you more eggs or no pay. "Hens won't lay in fall and winter," used to be accepted as a fact. But anyone who has tried Don Sung knows that hens will lay right through the zero spells of winter, and all other cold or wet seasons. Some may doubt this—and you may be one of them. But if you don't at least try Don Sung, you are missing some sure, easy profits from extra eggs.

Costs nothing to try—Give Don Sung to 15 hens for 30 days. If it doesn't show you a big increase in eggs; if it doesn't pay for itself and a good profit, your money will be promptly refunded. Prices: Trial size 50c; large size \$1, holds three times the 50c size; special size (6 times the \$1 size) \$5.00.

# LEE'S FOODS AND REMEDIES FOR STOCK AND POULTRY

THE GENUINE MERIT of the LEE FOODS and REMEDIES is their best guarantee, and you can depend upon them absolutely to do all that is claimed for them. The valuable booklets of the Lee company are free to poultry-

keepers and stockmen, and contain reliable and complete information to date on poultry and stock-feeding problems. We mail them on request.



More than 75% of all chickens are infested with intestinal worms, according to poultry authorities—worms which rob a fowl of its food, lower vitality, decrease egg production, retard growth, rob you of your poultry profits.

The GIZZARD CAPSULE will quickly rid your chickens of both tape worms and round worms. Five times as effective as worm remedies given in food or drink. Why? The GIZZARD CAPSULE is insoluble and carries the medicine intact to the gizzard where it is broken like a grain of corn, releasing the medicine into the worm-infested intestines in full strength and undiluted.

As easy to administer as giving a pill. Suitable for chicks at 10 weeks (2 lbs.) to full grown. Don't feed worms. Stop this waste and increase your profits. Give GIZZARD CAPSULES now. Satisfaction guaranteed or money refunded.

The Marvelous Gizzard Capsule is made in two sizes—adult size and chick size, and used as follows.

## ADULT SIZE

(One adult size equals three chick size)

- One for full-grown chickens. (Not bantams)
- One for full-grown turkeys.
- One for half-grown chicks. (4 lbs. and up.)
- One for half-grown turkeys. (6 lbs. up).
- Two for turkeys over 15 lbs.

## CHICK SIZE

- One for chicks 1 to 2 lbs. Including bantams.
- One for turks 2 to 4 lbs.
- Two for chicks 2 to 4 lbs. including bantams.
- Two for turks 4 to 6 lbs.

No need to weigh each bird but weigh a few so you will be able to judge reasonably close of their weight.

Adult size Gizzard Capsules are put up in 3 different size packages: 50 capsule pkg. \$1.00; 100 capsule pkg. \$1.75; 500 capsule pkg. \$7.00.

The chick size is put up in two different size packages: 100 capsule pkg. 90c; 500 capsule pkg. \$3.50.

**Lee's Headlice Ointment**—For little chicks. Large box, 15c.

**Lee's Louse Powder**—1-lb. can, 30c.

## FLU-KOFF EMULSION

There are many troubles affecting the breathing passages of baby chicks, colds, running at nostrils, watery or inflamed eyes, gasping, bronchitis, pneumonia, aspergillosis and bacillary white diarrhoea (where involvement of the lungs is observed), that are best treated by the use of Flu-Koff Emulsion.

12-oz. bottle \$1.25; 32-oz. bottle \$2.25



Twice a week add Germozone to the drinking water as a safeguard against White Diarrhoea, Coccidiosis and bowel troubles. It keeps the crop pure and sweet and combats germs and digestive dis-orders—a real life-saver for chicks. A most effective remedy for Colds, Roup and Swelled Head. Just as valuable for half-grown and mature fowls.

Germozone is the best remedy and preventive we know of—has been for over thirty years. That's why it is so widely imitated.

We can also supply you the wonderful new GIZZARD CAPSULES—they rid poultry of worms without sickening the chickens, slowing up laying or affecting fertility. Come in or phone us.

Health for the entire flock. Liquid, not prepaid. 4-oz. bottle 40c; 12-oz. 75c; 32-oz. \$1.50,

**Lee's Liquid Lice Killer**—For 20 years the standard. Destroys either by vapor or contact. No trouble to apply; just paint the roosts or wall at night. Kicks poultry and houses of all vermin, is prepared exclusively for this purpose. Qt. 60c; ½ gal. 90c; gal. \$1.50; 5 gal. \$5,

**Lee's Egg Maker** is not a tonic nor a medicine, but a meat food of great value. It will make hens lay, chicks grow, and keep them all in a healthy, vigorous condition. 2-lb. pkg. 50c; 5-lb. pkg. \$1.00; 25-lb. pail \$4.25,

## VAPO-SPRAY

With the first cough treat the flock

Vapo-Spray is the most effective medicine for colds, coughs, flu and pneumonia. All disease is progressive, going from bad to worse. This is especially so with colds in poultry. With the first cough, treat the entire flock with Vapo-Spray. As a sneeze develops into a cold, the fowl's head fills with pus, which may quickly progress into the dread disease, roup. Stop the cough and cold with Vapo-Spray before it becomes serious.

Vapo-Spray makes unnecessary the long, hard job of dipping the heads of the fowls individually. It is easier, cheaper and more effective. Simply spray the air in the hen house at night with Vapo-Spray. The birds breathe in the soothing vapors of the healing oils in Vapo-Spray. Qt. can 75c; ½ gal. can \$1.25; 1 gal. can \$2.00.

## FARM AND FIELD SEEDS

### SPECIAL PASTURE MIXTURE

**Mixture for Burned-Over Land**—In grading and cleaning grasses we frequently find combinations that are difficult of preparation, and while the seeds are often of excellent germination and quality, they cannot profitably be separated and cleaned, so we blend them to produce pasture mixtures suitable for sowing on burns and logged-off land. In ordering state whether for high or low lands.

### VETCHES

**NOTE**—All Vetch is scarce and higher than usual. Buy early if you need any.

**Oregon Vetch** (*Vicia Sativa*) — Oregon's greatest forage plant. Often called Fall Vetch Grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon coast. It furnishes an abundance of excellent feed, either green or dried. The seed is generally mixed with wheat, oats or rye, having a stiff straw to hold it up. Sown alone 85 pounds, or 60 pounds with a bushel of grain, per acre. Sow in the fall or early spring.

**Hungarian Vetch**—Becoming more popular each year on account of its strong, healthy growth. Its aphid resistance is probably the largest single factor toward making it a more generally grown vetch in Western Oregon. It's a heavier yielder, both in hay and seed, than any other vetches grown here under similar conditions.

**Hairy Sand or Winter** (*Vicia Villosa*)—This variety thrives on poor, arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to supplant the plants. Sow 20 lbs. per acre.

### CHEAT SEED

Cheat seed yields a good crop of hay. Sow in fall or early spring, about 100 lbs. per acre.

### BUCKWHEAT

**Silver Hull**—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early and yields heavily; a good milling variety.

**Japanese**—Good yielder; ripens early; excellent for bees to work on, as it remains in bloom longer.

### FLAX SEED

Western grown, large plump seed. New crop selected, re-cleaned. The flax industry in Oregon will greatly stimulate planting of flax. Write for special information and quantity prices.

### MILLETS

Sow in April, May or June, 20 pounds for seed or 35 pounds for hay per acre. Must be sown early to mature in Willamette Valley.

**Japanese Barnyard Millet**—Also called Billion Dollar Grass. Entirely distinct from any other millet. Grows 6 to 8 feet high, produces an enormous crop, often yielding 15 to 20 tons of green feed per acre. Exceedingly palatable and is best of the summer green feeds for cool coast sections. Is used almost exclusively for green feeding purposes. Excess yields of millet may be stored in silo, or may be made into hay. Is principally used for green feeding to dairy cows, but may also be used in connection with other stock feeding. Sow seed at 15 to 20 lbs. an acre. Our seed is genuine Japanese Barnyard Millet and not common water grass sometimes substituted. Standard variety.

**Early Fortune**—This variety seems to do extra well here; try it. Heads large and loose,

and seed is amber red and three times as large as the Common Golden. Makes good poultry feed.

**Liberty (German)**—An improved variety yielding a larger crop of seed than Common Millet; it is also taller than the Common Golden, and yields a heavier crop of hay. Seed small, golden yellow.

### SEED OATS

**Shadeland Climax**—This grand oat belongs to tree or branching class, is a vigorous, healthy grower of strong stooling qualities. This is one of heaviest yielding oats introduced to date. It does not produce much straw, but the yield of "thin hulled" plump, heavy grain, even on high, dry land, is amazing. For early spring planting, large yield and quick maturity, Climax is a winner. If you live west of the Cascade Mountains, you can plant Climax fall or spring, any time the ground is fit, but where the climate is severe, spring plantings are best.

**Shadeland Eclipse**—"Eclipse" is generally classed as a spring oat and is one of best white side oats grown. Eclipse is enormously productive, early, very vigorous and produces massive heads filled with medium size plump grains. Eclipse has been awarded many prizes. Can be safely planted in fall as it is very hardy.

**Gray Winter**—Gray Winter oats are very hardy, and are generally used for fall sowing and are especially useful for sowing with vetch. The straw grows very long, is stiff and not liable to lodge. It is a head oat. The grain is dark gray, large and plump, it yields well.

**White Seed Oats**—Aside from the named varieties of fancy seed oats above, we can supply White Valley Oats at market price for fancy re-cleaned stock. Write for prices when ready to buy, stating quantity.

### SUNFLOWER

**Mammoth Russian**—The best variety to grow for the seed or silage. Planted in or around the poultry runs they make a good shade during the hot summer days and at the same time produce a valuable feed. Cultivation same as corn. For silage sow 12 to 20 lbs. per acre; for seed purposes, give more space to mature heads, 5 lbs. per acre. Heavy, re-cleaned seed, high germination.

### KAFFIR CORN

An excellent fodder plant. Seed small and almost round, valuable poultry and pigeon food. It does best sown thinly in drills three feet apart.

### RAPE, DWARF ESSEX

We offer you true, pure seed. One of best forage plants on account of large amount of green feed it produces at a season of year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May to Sept.; or plant it with grain. Sow, per acre, three pounds, in drills; or if broadcast, five pounds.

### SEED RYE

When ready to buy Fall or Spring Rye seed write us for quotations on quantity wanted or send in your order and we will give full value.

**Prices subject to change. Write for special prices.**

## FARM AND FIELD SEEDS—(Continued)

### FIELD CORN

These varieties have all been grown especially for seed. The seed is well cured and true to name. There is no longer any doubt as to corn being grown successfully in the Northwest, and careful tests have proven the following to be adaptable to our coast climate. As a fodder crop corn cannot be excelled, and cut green and packed in silos it makes a valuable green feed for milch cows.

**Pride of the West**—Oregon grown; acclimated. Grand success in Oregon. We have been raising this variety for years, and by selecting the earliest ripening and best select ears, now have a strain that is a revelation to many people who have thought Oregon and Washington could not raise profitable field corn. **Pkt. 10c; lb. 15c; postpaid.** Write for price on large quantities.

**Minnesota No. 23**—A white Dent is the earliest heavy yielding white corn for the Northwest; it is a little earlier than Minnesota No. 13. **Pkt. 10c; lb. 15c; postpaid.** Write for price on large quantities.

**Champion White Pearl**—A large, White Dent variety; very popular with our dairymen on account of the great amount of green feed it makes. **Pkt. 10c; lb. 15c; postpaid**

**Pride of the North, Dent**—A quick growing yellow Dent variety, thriving well where the summers are not very long. Bright golden color. Not Oregon, but Eastern grown. **Pkt. 15c; 100 lbs., write for price.**

**Minnesota No 13**—A variety of great promise, being the earliest of the early yellow Dent corns and reported to be the heaviest yielding. Producing splendid large ears, closely filled from end to end with bright yellow kernels. Grows about seven feet high and being a rapid, vigorous grower, with heavy foliage, makes a fine fodder corn. Will mature in ninety days under favorable conditions. **Large pkt. 10c; lb. 15c; postpaid. 100 lbs., write for price.**

**Sugar Corn for Green Fodder**—We offer seed of Sugar Corn which is especially grown for fodder purposes, being of quick growth and early maturity. Sown at the rate of two bushels per acre in drills four feet apart, it makes a splendid stalk six to eight feet in height, which are of the finest quality for feeding green, cutting for ensilage, or cutting for fodder. **Pkt. 10c; lb. 30c; postpaid**

### COW OR THOUSAND HEAD KALE

#### Plants in Season

The great demand for this wonderful forage plant proves it to be the valuable green feed for Pacific Coast dairy and stockmen; endorsed by agricultural colleges and government stations. Cow Kale should be grown in the same manner as cabbage. Make the rows 4 feet, plant 3 feet apart in the row. Can be set as late as July. Write for full information on planting and feeding. A quarter of a pound of seed will produce enough kale plants for one acre. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 60c**

**Jersey Kale**—Large, heavy, massive plants with giant, broad leaves. It gives enormous production and is becoming very popular for feeding. This variety produces by far the largest crop. We offer seed of our own growing. **Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. \$1.00; 3 lbs. or more at 90c; postpaid.**

**Giant Marrow**—Enormous plants on tall heavy stalks. The leaves are very broad and

heavy and combined with large stalks, often 3 inches in diameter, make a heavy yield of feed. **Pkt. 10c; oz. 20c; ¼ lb. 65c; lb. \$2.00**

### FIELD PEAS

A very profitable crop and grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching soil if plowed under. We can supply White Field or Blue Bell varieties. Write for prices.

### MANGELS

#### For Stock Feeding

**Giant Half Sugar Mangel**—Yields as much per acre as the best mangels and twice as much per acre (bulk or roots) as the rich sugar beet. Roots grow very large above the ground. Smooth, creamy white in color and very nutritious. Easily pulled. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 60c; 10 lbs. \$5.00.**

**Mammoth Long Red**—Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the ground; roots quite regular; attain a very large size. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 60c; 10 lbs. \$5.00.**

**Danish Sludstrup**—An improved variety, considered one of the best. Awarded first class certificate. Reddish yellow, and of distinct type. Very hardy, grows well above ground; easily pulled; very nutritious. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 60c; 10 lbs. \$5.00.**

**Golden Tankard**—An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep yellow, of fine shape, growing largely above ground, thus being easily harvested. **Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 60c; 10 lbs. \$5.00.**

### TURNIPS

#### For Stock Feeding

**Cowhorn**—Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon; an immense yielder. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 80c.**

**Large White Norfolk**—A white variety, usually attaining a very large size. Extensively grown for stock feeding. The leaves are also used for greens. It is hardy and may remain in the ground all winter. Yields very large crop. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 80c**

**Yellow Aberdeen**—Round, medium size; light yellow. Produces a large crop; is hardy and keeps well; flesh very firm but tender and sweet. A great favorite with dairymen. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 80c**

**Pomeranian White Globe**—One of the most productive kinds, and in good, rich soil, roots will frequently grow to 12 pounds in weight. It is of perfect globe shape; skin white and smooth; leaves dark green and strong growth. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 80c**

### RUTABAGA

**Monarch or Tankard**—Very solid, fine grained, of fine flavor; grows well out of the ground and yields large crops. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 80c.**

**White Sweet Russian**—Excellent for table or stock. Very large; white, solid, sweet, rich, keeps well. **Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 80c**

PRICES SUBJECT TO CHANGE. WRITE FOR PRICES.

# GRASS AND CLOVER SEED

## STAIGREEN SPECIAL LAWN GRASS MIXTURE

Prepared from the choicest re-cleaned grass seeds carefully selected for their fineness, their deep rooting, close growing habits and seasonable qualities; producing an ideal, dense velvety turf of lasting quality that remains green throughout the year. Sow one pound to 200 square feet. **1 lb. 60c, postpaid**

## SHADY LAWN MIXTURE

Especially selected for producing a fine velvety lawn under firs and shade trees where most grasses do not thrive. **1 lb. 70c**

## CERTIFIED CREEPING BENT GRASS

This variety differs from Pacific Creeping Bent in that it is a true type and not a mixture. It is more suited to highlands than ordinary bent grasses. Astoria Bent requires much less moisture. Astoria Creeping Bent is raised under the most careful supervision. The higher cost is well repaid in the superiority of results. **1 lb. \$1.50**

## IMPORTED CREEPING BENT GRASS

This furnishes an unusually fine turf on ordinary soils. It is very hardy and thrives in both summer and winter owing to the fact that it is a mixture of various varieties of bent grown under nearly all conditions. **1 lb. \$1.00; 10 lbs. \$9.00, postpaid.**

## WHITE DUTCH CLOVER

Extra Fancy, the very finest quality for use on lawns. Makes an attractive lawn while grass is getting a good start. **1 lb. 55c; 10 lbs. \$5.00; postpaid.**

## KENTUCKY BLUE GRASS

**For lawns**—Blue grass is used very extensively for lawns and is found in all good lawn grass mixtures. Our extra fancy seed is unexcelled for weight and purity. Few dealers handle this high grade re-cleaned seed on account of its cost. This seed, straight or mixed, with Fancy White Clover, is excellent for lawns. **Extra Fancy, 10 lbs. \$5.00; per pound, postpaid, 55c; 100 lbs., write for price.**

## ENGLISH RYE GRASS

A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. It grows very rapidly and makes a good showing quicker than most grasses.

## ITALIAN RYE

A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for meadows or permanent pasture; thrives best on soils that are slightly moist; makes fine hay.

## RED TOP

**Argrostis Vulgaris**—Red Top is a very hardy permanent grass, forms a tough sod, is good in pasture mixtures and is especially valuable on wet ground where other grasses will not thrive. We have only fancy re-cleaned seed, free from chaff. Only about one-half as much of this seed is required as of the seed in chaff usually sold. Ten to fifteen pounds per acre is sufficient.

## ORCHARD

Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Will do well under trees, or shady places. Valued for hay crop, as it is very nutritious if cut early.

## TIMOTHY

As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam.

## ROUGH STALK MEADOW

For shady places under trees or wood pasture.

## LADINO WHITE CLOVER

Tall growing white clover which furnishes an excellent yield of good pasture and makes sufficient growth to be cut for hay. Will carry as much stock per acre as blue grass.

## CHEWING FESCUE

Recommended for lawns and golf links. It is a fine-leaved low-growing grass that forms a compact turf. Does well on all soils, even on dry sandy soils.

## MESQUITE

It is usually sown on virgin soil, without cultivation, after the ground has been burned over.

## BROMUS INERMIS

On account of its strong perennial character, and its wonderful drought-resisting powers, is best grass we have for the semi-arid regions of the Northwest. Very heavy yielder.

## BERMUDA GRASS

**(Cynodon dactylon)**—Suitable only for climates where the winters are not below the freezing point. It stands the hottest and driest season. Sow 6 lbs. per acre.

## CRESTED DOG'S TAIL

**(Cynosurus cristatus)**—A perennial grass with short, narrow leaves; valuable for lawns or pasture on dry, light land; makes excellent sheep pasture. Use 20 lbs. per acre if sown alone.

## ALFALFA

Reports prove that Alfalfa will grow in all parts of the West, but requires a deep, loose soil. Will not thrive on heavy clay or where there is hard pan. As soon as cut it immediately commences to grow. Excellent hay or pasture. Alfalfa, once established, is a crop so profitable that every farmer may well take great care to get a stand.

**Common Alfalfa**—Write for prices.

**Dry Land Alfalfa**—For high, dry, hot land, where irrigation is impossible.

**Grimm Alfalfa**—This new variety is very hardy and will stand much more tramping and root injury. In many Western sections it is out-yielding the common variety and proving much more profitable. It is a little earlier and will do well in most all soils except undrained meadows. Not affected by extreme heat or cold, and does better in a wet climate than any other alfalfa. We offer the **genuine true Grimm seed.**

## RED CLOVER

Hardy, and succeeds well on any good soil. The most popular variety.

## ALSIKE CLOVER

Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

## CRIMSON CLOVER

**Trifolium Incarnatum**—An annual, useful principally as a cover crop or to plow under. Sow 15 pounds per acre. Write for prices.

## MAMMOTH RED CLOVER

**Trifolium Medium**—Grows very rank and coarse, and is used mostly for a fertilizer, for plowing under. Sow 8 to 12 lbs. per acre.

## WHITE SWEET CLOVER OR BOKHARA

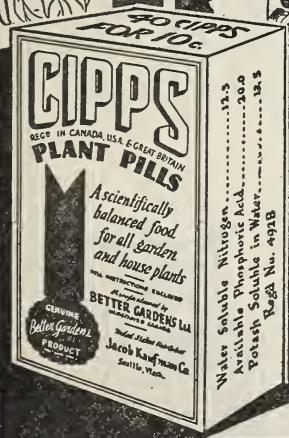
**Melilotus Alba**—A biennial, used to some extent for hay and pasture, but most valuable for bee pasture. Sow 20 to 30 lbs. per acre.

**Grass Seed prices are subject to change. Write for special prices.**

# CIPPS

## PLANT PILLS

*One Cipps  
each plant  
each month*



**T**O build and maintain the fertility of the soil is the first essential of successful gardening.

What is needed in every instance is a reliable fertilizer containing the soluble plant foods . . . nitrogen, potash and phosphates . . . in scientific proportions.

### "CIPPS" CONTAIN ALL ESSENTIAL PLANT FOODS . . .

CIPPS PLANT PILLS contain a higher percentage of these essential plant foods than any other fertilizer, and each of these foods is made immediately available to the plant by the water-soluble formula by which they are manufactured.

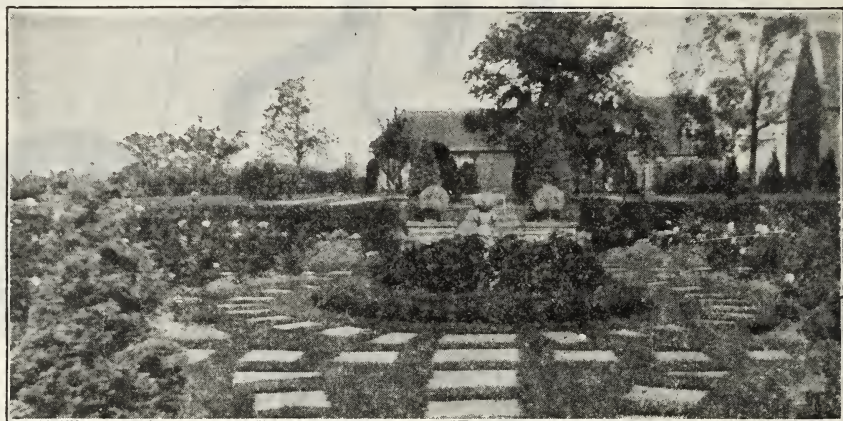
Luxuriant bloom, richer foliage, larger and better vegetables and fruit are the inevitable result of the consistent use of CIPPS PLANT PILLS in all your gardening activities.

"CIPPS" are always safe, sure and economical. No odor, no waste, no dust, no fuss. Simply give each plant one "CIPPS" each month.

### 7 "CIPPS" FOR ONE CENT . . .

By purchasing "CIPPS" in the large packet you get 720 for \$1.00—more than 7 for a cent. For a majority of homes, this is the most economical packet to buy. "CIPPS" are also sold in packets of 300 for 50c, 120 for 35c, and 40 for 10c.

*Complete Instructions in Every Packet.*



## All Plant Life Must Have Food

Plants, like human beings, require a balanced diet for normal, healthy growth. The lack of a single essential element may be the limiting factor in their growth. Vigoro, the complete, balanced plantfood, contains the right amount of each food element necessary to produce rich-green, velvety lawns; large, beautiful flowers; healthy, full-foliaged trees and shrubs; and early, delicious vegetables. It is "the **square meal** for all plants."

Clean, odorless, and economical, Vigoro is easy to use. Simple directions for feeding everything you grow accompany each bag or package. Vigoro is used annually on 3,000,000 homes. We recommend it.

The Vigoro Spreader applies Vigoro, grass seed, and other materials evenly and accurately. Write for prices and full description.

# VIGORO

*Complete plant food*

A Product of Swift & Co.

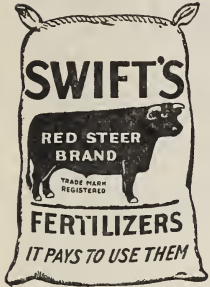
**Prices:**  
 100-lb. Bag.....\$6.00  
 50-lb. Bag..... 3.75  
 25-lb. Bag..... 2.00  
 5-lb. Pkg..... .60  
 12-oz. Pkg..... .10  
 F. O. B. Portland



*A square meal for  
 lawns and flowers  
 is 4 lbs. of Vigoro  
 per 100 sq. ft.*

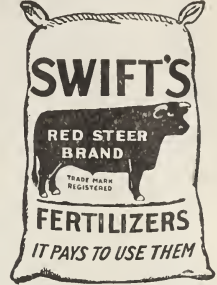


# SWIFT'S FERTILIZERS



Consistent use of properly balanced commercial fertilizers is accepted by commercial truck and fruit growers as a necessity in securing the yield and quality required for profitable operations.

Home gardeners desiring maximum yield and improved quality are using commercial fertilizers in increasing quantities each year. The **RED STEER** fertilizers listed below have given excellent results for the various purposes mentioned.



In fertilizer formulae, the plant food content is shown in the following order:

Nitrogen-Available Phosphoric Acid-Water Soluble Potash.

Thus, the formula 3-10-10 contains 3% Nitrogen, 10% available phosphoric acid, and 10% water soluble potash.

**Red Steer (3-10-10)**—General garden fertilizer. 100 lbs. \$2.30; ton \$43.50.

**Red Steer (6-10-4)**—Very good for lawns, also fruit trees where more rapid growth is desired. 100 lbs. \$2.45; ton \$46.65.

**Red Steer (5-7-8)**—Especially for berries, and early potatoes. 100 lbs. \$2.35; ton \$44.55.

**Red Steer (4-7-6)**—Used by many celery growers. 100 lbs. \$2.10; ton \$39.70.

**Red Steer (2-5-10-20)**—For onions and bulbs. 100 lbs. \$2.70; ton \$51.45.



You will find this certificate of Quality tag attached to each bag of **RED STEER** complete fertilizer. It is your assurance that the contents have been carefully prepared according to the following schedule.

## BEST MATERIALS

Raw materials are carefully selected to insure maximum availability as required by the growing plant.

## DOUBLE MIXED

Materials are thoroughly mixed into large piles for "curing," then receive a second thorough mixing when the fertilizer is

ground and bagged for shipment. This assures best mechanical condition.

## TRIPLE TESTED

Raw materials are analyzed for plant food content before the mixing operation; a second analysis is made of the mixtures "in cure"; the final analysis is made of the fertilizer ready for shipment.

**Look for the "Certificate of Quality" Tag on the Fertilizer Bag—It is Your Assurance of Uniform High Quality**

**CAR LOAD LOTS \$2.00 PER TON LESS THAN TON PRICE**

# FERTILIZERS

## SHEEP MANURE--EVERGRO

**Evergro Brand Sheep Manure** is prepared from an unusual quality of genuine sheep manure, taken from covered feeding sheds (not from open corrals). It has never been exposed to the weather, and is free from all sand, dirt and weeds. The manure is thoroughly dried and all the water content removed. Then it is uniformly ground or pulverized. Light in weight, but heavy in plant food.

### Directions for using "EVERGRO"

**Vegetables and Fruits**—If you want big crops of crisp, tender vegetables use Evergro scattered broadcast and cultivated into the top soil 10 lbs. per 100 square feet; a handful per individual plant; along the rows 1 lb. to every 10 feet; a pint per shrub, 5 to 10 lbs. per tree, etc. Field use 1000 to 2000 lbs. per acre.

**Flower Gardens**—Luxuriant green foliage and a wealth of vivid colored flowers quickly follow an application. Dig deeply into the garden soil and mix a small handful with the soil under each plant or bulb and more for vines, shrubs, and trees, depending on size. Applications during the growing season will put new life into your plants and prolong the blooming season.

"EVERGRO" Brand Sheep Manure produces a thick velvety green turf of lasting beauty. Give your lawn an application early in spring and you will be surprised at the new beauty it will develop. In making new lawns, scatter broadcast 10 lbs. to every 100 square feet and rake into the surface soil. On old lawns rake well and use about 3 sacks for the average city lot with a house on it.

**Prices**—Sack \$1.25; 3 sks. \$3.50; 5 sks. \$5.50; 10 sks. \$10.50; 15 sks. or more, \$1.00 per sk. Small lots—2 lbs. 15c; 5 lbs. 25c; 30 lbs. \$1.00; postage extra if wanted by mail.

### BONE MEAL

Fine ground, is one of the best fertilizers. This is a very valuable enricher of the soil, and one of the most economical at present prices. **Write for prices.**

### MURIATE OF POTASH

This fertilizer is especially valuable for fruit trees and berries. It increases the size and yield and makes a marked improvement in quality and color. Use about 200 lbs. per acre. Very valuable to use with stable manure, which is always shy of potash. **Write for prices.**

### SULPHATE OF POTASH

A desirable form of potash, especially valuable for potatoes and any root crops, such as beets, turnips, etc., also cabbage, etc. **Write for prices.**

### FISH GUANO

Fish scraps, cooked, dried and ground, is a strong fertilizer, high in nitrogen, carrying considerable phosphorous and used largely by vegetable growers. We do not recommend this

for lawns or city use, its odor is objectionable and particles picked up by dogs have been known to poison them. **Write for prices.**

### SULPHUR FOR FERTILIZER

Recent field experiments in the Northwest have demonstrated the fact that sulphur is one of the most valuable fertilizing materials that can be applied to the soil, not only being readily taken up as a powerful stimulant by practically all classes of vegetables, but having the further and more valuable property of making available the insoluble potash and phosphoric acid contained in all soils, as well as being an effective fungicide and insecticide. **Write for prices.**

### SUPERPHOSPHATE

A concentrated form of phosphoric acid, actually the cheapest form in which to buy phosphoric acid. Contains 17 to 18 per cent available phosphoric acid. **Write for prices.**

### TANKAGE

Ground meat scraps and bone, desiccated in a vacuum, is very rich in phosphoric acid and nitrogen. **Write for prices.**

### NITRATE OF SODA

For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants or any other crop. **Write for prices.**

### SULPHATE OF AMMONIA

**Analysis**—Nitrogen as Ammonia 25%

Is gaining in favor equally fast with Truck Gardeners, Fruit Growers and Grain and Hay Producers. It is always uniform in quality. The fine dry crystals run as freely and spread as evenly as table salt. It is instantly absorbed by the water in the soil and is immediately effective. **Write for prices.**

### LAND PLASTER OR GYPSUM

Made from pure Gypsum, free from clay or other foreign matter. This is especially valuable for clover crops. 10 lbs. 25c; 100-lb. sack \$1.00.

### BLOOD MEAL

Pure blood, cooked, dried and finely ground. A quick-acting fertilizer, analyzing very high in effective nitrogen; in fact, the nitrogen of dried blood is one of the most effective forms of organic nitrogen known. This also carries some phosphorus; is a strong fertilizer, a little going a long ways. **Write for prices.**

### MORCROP TABLETS

For Milady's House Plants

Highly concentrated, complete fertilizer in tablet form for convenient application. Odorless, clean and quickly water soluble. The action is rapid and both foliage and bloom is improved. Equally effective in the garden.

**Price 10c**



The NEW LABOR-**SAVING** IDEA of McQueen's Dust-Kote is strikingly shown in these two pictures. Every farmer can readily see why he should use McQueen's Guaranteed Dry Inoculator instead of any other

Now you don't have to use out-of-date, messy methods to treat your legume seeds. The new McQueen Dust-Kote Inoculator is just dusted on the seed. Takes but a moment to do it right in your seeder, you need no water at all. Sticks to seed and is a clean, handy inoculation.

Absolutely guaranteed to give satisfactory results or your money back. This is for your protection. You are the judge of results.

Inoculate your Alfalfa, Sweet Clover, Soy Beans, Vetch, Peas, Beans and Clovers of all kinds with McQueen's guaranteed inoculator that hastens maturity, increases the crop, improves its quality, enriches the soil and saves fertilizer bills.

Simple directions for mixing inoculator with your seed are printed on each package of McQueen's. Only a few minutes of your time is required to inoculate your legume seed. Do it right in seeder or drill box. No water is

used. Many master farmers use McQueen's. Tremendous sales on McQueen's Inoculator enables us to offer this quality merchandise at these reduced prices:

**For Clover or Alfalfa**

- ½ bushel size inoculates 30 lbs. seed...\$ .50
- 1 bushel size inoculates 60 lbs. seed... 1.00
- 2½ bushel size inoculates 150 lbs. seed.. 1.75

**For Soy Beans, Cow Peas, Vetch, Peas or Beans—all large seed**

- 1 bushel size inoculates 60 lbs. seed...\$ .50
- 2 bushel size inoculates 120 lbs. seed.. 1.00
- 5 bushel size inoculates 300 lbs. seed.. 1.75

**Garden Packet**

- Peas, beans, lima beans, sweet peas...\$ .15
- Be sure to include McQueen's Inoculator with all your legume seed orders.

**Always state kind of seed you wish to inoculate.**



**EARLIER TO MARKET FOR HIGHER PRICES**

Germaco HOTKAPS—“individual hot-houses for every plant”—are made of waxed paper in the form of a cone which completely covers the plants—the only way to fully protect them from frost. HOTKAPS also protect against rain, wind, ground-crusting and insects—your insurance of faster-growing, hardier plants, with larger yields and greater profits, because you market earlier.

**HOTKAPS** are inexpensive to use. One man can “set” over 3000 per day. Write us now about this money-making crop necessity, or simply order your season's supply now.

Prices: 1000 lots \$11.50; 5000 lots \$11.00 per M; 10000 lots \$10.75 per M; 250 trial package, including Garden Setter with tamper, \$4; 100 Home Pkg., \$2.50; Germaco Hotkap Steel Setter with Tamper, \$2.50; postage extra.

Weights: 1000 package Hotkaps 26 lbs. 250 package 9 lbs.; 100 package 5 lbs.; Steel Hotkap Setter 3 lbs.



**Germaco Hotkaps**

# PROTECT YOUR PLANTS

WITH



## Keepway Tarred Plant Protectors

Protects Cabbage and  
Cauliflower Plants

The maggot fly is the greatest pest with which the grower of cabbage and cauliflower has to contend with. A Keepway Tarred Plant Protector around the stem of the young plant will keep the maggot fly from laying its eggs around the stem. Why take chances when plant insurance can be purchased so cheaply? This pad retains its efficiency until the plant is matured. The size of these protectors is 3x3 inches, put up in packages postpaid as follows: Pkg. of 24 15c; pkg. 72 35c; pkg. 144 50c; pkg. 500 \$1.50; pkg. 1000 \$2.90.

## Naphthalene

For Treating Soil for Insect Pests

Used by truck gardeners, bulb growers and for field crops to drive away grubs, wire worms, slugs, centipedes, aphids, etc. Safest, most powerful insect repellent that can be used in quantities at low price. In granulated form, with strong odor like moth balls. Has been used in Europe for years. Drives off caterpillars, stupifies insects. Prices: 1 lb. can 25c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. \$2.25; 50 lbs. \$4.00; 100 lbs. \$7.50; f. o. b. Portland,

## Bamboo Plant Sticks

Bamboo, pencil size, stained green.

2-ft. 20c doz.; 100 \$1.00 2½-ft. 25c doz.; 100 \$1.25  
3-ft. 30c doz.; 100 \$1.35 4-ft. 35c doz.; 100 \$1.50

## Wooden Garden Sticks

Painted green with white tip

Size	Per 100	Per Doz.
3-0 long .....	\$3.00	\$ .50
3-6 long .....	4.00	.60
4-0 long .....	4.50	.70
4-6 long .....	5.00	.80
5-0 long .....	6.00	.95
5-6 long .....	6.75	1.10
6-0 long .....	8.00	1.25

### TREE LABELS

Copper Wired and Painted

3½ inch.....35c per 100; \$2.90 per 1000

### POT LABELS

5 inch .....35c per 100; \$2.50 per 1000  
6 inch .....40c per 100; \$3.00 per 1000  
8 inch .....85c per 100; \$7.50 per 1000

### GARDEN LABELS

10 inch .....\$1.00 per 100; \$9.00 per 1000  
12 inch .....\$1.50 per 100; 12.50 per 1000

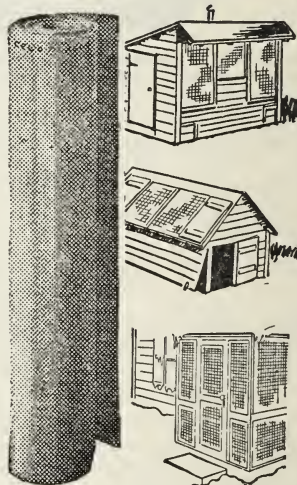
REG. U.S. PAT. OFF.  
**CELO-GLOSS**  
U.S. PATENT 1,580,987

for poultry houses — cold frames  
—hot beds—hog houses—porches



Brings  
Ultra  
Violet  
Rays  
Indoors

The name  
is on the  
selvage

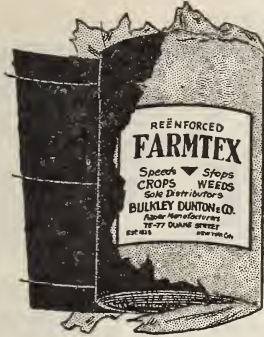


Light weight, unbreakable, flexible, weatherproof material made by coating wire mesh with a clear, transparent substance. It will withstand rain, hail, sleet, ice and snow and is unaffected by heat of 400 degrees Fahrenheit. The health building ultra-violet rays of the sun pass freely through it, whereas glass keeps them out. Attractive in appearance and will stand building strains, vibrations and shocks which glass will not do. Excellent for poultry houses, greenhouses, hotbeds, garage doors and windows, sun porches, factory windows, etc.

Cel-O-Glass—Wt. 100 sq. ft. 15 lbs., sq. ft. 13½c  
In rolls 36 in. wide, 25 and 100 ft. long

## Japanese Tubs

These tubs have large hoops and are imported from Japan. Small size, 13 inches high, 14 inches diameter at top. Price 75c each, postage extra.



# Reenforced Farmtex

Patent applied for

## The Better Mulch Paper

**Stops Weeds  
Speeds Growth**



- 1 Black - Asphalt
- 2 White - Paper
- 3 Black - Asphalt
- 4 White - Paper
- 5 Black - Asphalt

The value of mulch paper for growing crops has been established through scientific tests made by agricultural colleges in various states, by U. S. Department of Agriculture and by results obtained by farmers and gardeners. Mulch paper has proved a great labor saver, keeping down weeds and thus doing away with the necessity of weeding or cultivating. This means an important saving of time and money where labor is employed.

Keeping the weeds down prevents their taking fertility from the soil, thus saving in the amount of fertilizer required. Evaporation is prevented. Mulch paper permits all rain that falls to enter the soil and then keeps it entrapped there. All moisture is kept in the ground for use of crop, and land being free from weeds, the crop has full benefit of soil without having to share it with useless weeds.

Reenforced Farmtex absorbs the heat of solar radiation and keeps the soil at favorable growing temperature. Thus **Larger and Better Crops** are produced where Reenforced Farmtex is used.

Reenforced Farmtex has two thicknesses of

paper; three thicknesses of asphalt and reenforced cords between the paper, the cords set in asphalt.

The corded edges prevent tearing; the corded centers on wide widths prevent wind producing center tears. It is absolutely waterproof and wears a long time, giving three years' service with proper care. The use of Reenforced Farmtex is not only economical, but it is also very profitable, producing more prolific yields of better quality, vegetables or flowers.

A gardener writing for "The Flower Grower," September, 1929, page 439, says:

"Tried it on Crookneck Squash, with check hills without paper. It saved practically all weeding and made me wish I'd used it all around the hills as well as on them."

### Reenforced 150-yard Rolls

12 in. wide, corded edges.....\$3.25 per roll  
18 in. wide, corded edges-center \$4.00 per roll  
36 in. wide, corded edges, 4 cords in center.....\$7.75 per roll

Lay the paper between rows. Place stones or earth on the edges to hold it in place.

## BYE-BYE BLACK BIRD

Don't feed bird and animal pests—drive them away with Bye-Bye Blackbird.

Crows, blackbird, pheasants, woodchucks, even more destructive than the corn borer—need worry you no longer, for now you can safely fight these pests and drive them away from your corn and pea fields.

Bye-Bye Blackbird is a safe remedy—safe for the user but a positive assurance that it will rid your corn of crows, blackbirds, woodchucks, gophers and other plant-destroying birds and animals that eat your corn and pea seeds and pull up young, growing plants.



Bye-Bye Blackbird will not injure the seed corn or peas, but is a positive protection in the prevention of seed rotting in the soil. Larger crops are assured through its use. Less labor is involved, for Bye-Bye Blackbird makes it unnecessary to replant destroyed fields. Bye-Bye Blackbird is harmless to plant life. It should not, however, be brought in contact with any part of the body.

**Directions**—To mix with seed corn or peas, first secure a non-absorbent container, preferably a galvanized tub. Place the corn or peas to be planted in the container, pour contents of half-pint can to each bushel of corn or peas and mix thoroughly with stick or spoon. There is no need of drying corn or peas before putting into planter and you are assured planter will not clog through its use.

Bye-Bye Blackbird, in 1-pint can, for two bushels of seed corn or peas, each.....\$1.50  
Bye-Bye Blackbird, in ½-pint can, for one bushel of seed corn or peas, each.....\$1.00

### KOW-KARE

**Makes Poor Cows Good—Good Cows Better, and Makes More Money for Cow Owners**

**Kow-Kare** (originally Kow Kure) is different from anything ever discovered for cow troubles. It is the only cow medicine that is strictly for cows only. It is not a stock food, but a specific remedy, especially for cow diseases, such as barrenness, scours, milk fever, caked udder, bloating, red water, swelling of bag, etc. It prevents abortion and removes retained after-birth. It tones up the system, renews vitality, restores appetite to cows that are "off feed," and keeps them healthy. It increases the milk flow, and enables the cows to produce strong, vigorous calves. It is the dairymen's gold mine, and a sure profit-payer. Medium cans, mail weight 2 lbs., 65c; large cans, mail weight 4 lbs., \$1.25.

### American Dairy Association Remedies

**Bag Balm**—A soothing, penetrating ointment for all affections of the bag. Weight 8 oz. package, 60c; postage extra.

**Grange Garget Cure**—An unsurpassed and positive cure. Weight 2-lb. can 65c; post extra.

**Horse Comfort**—For wire cuts and flesh wounds. Bottles, wt. 1 lb., 30c; wt. 2 lbs., 60c; postage extra.

**American Horse Tonic**—A general improver for horses. Boxes, wt. 1 lb., 30c; wt. 2 lbs., 65c; postage extra.

# ACME INSECTICIDES FUNGICIDES



## Acme All-Round Spray

The latest improvement in the insecticide field; one product which will combat blight and fungous diseases, control sucking insects and destroy chewing insects in one application. Safe to use on almost all fruits, vegetables, flowers, shrubs. Write for circular. Prices:  $\frac{1}{4}$  lb. 40c; 1 lb. 90c. Cannot mail.



## Acme Bordeaux Mixture

Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. Stimulates plant growth and greatly increases harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture. Prices: 1 lb. 40c; 4 lbs. 90c; 100 lbs. \$12. Cannot mail.



## Acme Paris Green

A rich emerald color and of fine fluffy physical character. Containing 55% arsenious oxide, it will give quickest control where extreme measures are necessary. For use on potatoes, cotton, tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary. Prices:  $\frac{1}{4}$  lb. 15c; 1 lb. 50c; 5 lbs. \$2.00. Cannot mail.

## Acme Lime Sulfur

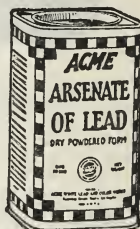
A standard 33 degree Baume line and sulphur converted into a dry powder but having all the effectiveness of the liquid product when dissolved in water.



For use in dormant spraying against scale, peach blight, leaf curl, and twig borer. Summer spraying against scab, soot, blotch, red spider and mite. Price: 1 lb. 30c; 5 lb. \$1.25; 10 lbs. \$2.00; 50 lbs. \$6.00; 100 lbs. \$11.50.

## Acme Arsenate of Lead

Most favored arsenical insecticide found on American market. It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and tobacco. Can be used as dust or spray. Prices:  $\frac{1}{4}$  lb. 20c; 1 lb. 35c; 4 lbs. 85c; 100 lbs. \$12.00. Cannot mail.



## Acme Bait-M

An effective insecticide bait which will throw a ring of protection around shrubs, flowers and plants. For use against snails, cutworms, sow bugs, grasshoppers and many other insects which migrate along the ground. Prices: 1 lb. 35c; 3 lbs. 75c; 15 lbs. \$2.50. Cannot mail.



## Acme Two-Way Spray

A balanced insecticide and fungicide containing 14% arsenate of lead and 83% Bordeaux mixture. Two results with one application. Use wet or dry on apple, sour cherry, currant and gooseberry, grape pear, plum, strawberry, pecan, bean, beet, cucumber, pepper, potato, tomato and many other fruits and vegetables. Prices:  $\frac{1}{4}$  lb. 25c; 1 lb. 45c; 4 lbs. \$1.25. Cannot mail.



## Acme Garden Guard

A garden insecticide and fungicide for use as a dust. No water, no mixing, no muss. For use on cabbage, cauliflower, tomato, melon vines, currants, gooseberries, and other vegetables, flowers and shrubs of many kinds. Prices: 1 lb. sifter carton 25c; 5 lbs. \$1.00. Cannot mail.



Poisons cannot be sent through the mail

## ACME SPRAYING GUIDE

Consistent of  
Acme White Lead and Color Works  
Portland, Oregon

WHEN AND WHAT TO SPRAY

Free

Write for this Fine Guide Free

Name \_\_\_\_\_ Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_



## A NON-POISONOUS SPRAY

For use in the control of Mealy Bug, Green Aphis, Red Spider, Rose-worm, Plant Lice, Pyslla, Earwigs, Slugs, Thrips, Mildew; White Fly; and many other pests.

**APH-IS-ITE**—It is a wonder spray and can be used wherever vegetable and insect life conflict. To Rosarians that have had the two great enemies to fight, aphis and mildew, we especially recommend Aph-is-ite, for it really does control them. All rose growers recognize mildew by its patches of greyish white mold. It should be attacked before you can see it. Aph-is-ite will control it no matter what the stage of development, but the best treatment is early treatment. It will, therefore, be seen that by using Aph-is-ite during the spring and early summer not only will the insect pests be destroyed but also the possibility of mildew, rust and blackspot be eliminated. **Spray early. Spray well.**

### SPRAY WITH APH-IS-ITE

½-pint cans, makes 4 gals., each.....\$ .35  
1-quart cans, makes 15 gals., each 1.00  
5-gallon cans, makes 300 gals., each 10.00

**BLUE STONE (Vitol)**—Lb. 15c; 10 lbs. \$1.25

**BLACK LEAF 40**—To kill green and wooly aphis, thrip, plant lice, codling moth, and all sucking insects. **Prices:** 1-oz. bottle 35c, makes 5 gal.; ½-lb. can \$1.25 (47 gal.); 2-lb. can \$3.25 (240 gal.); 10 lbs. \$11.85, (1000 gals.) Note: Use 1 lb. Fish Oil Soap to 10 gal. water and add Black Leaf 40.

**BUG DEATH**—Non-poisonous to humans, birds or animals, but it sure gets all chewing insects, aphis, tomato beetle and helps prevent blight. **Prices:** 1 lb. can 30c; 5 lbs. \$1.00; 12½ lbs. \$2.00; postage extra.

**BUHAD INSECT POWDER**—Kills flies, fleas, bedbugs, etc. Small yellow pkt. 10c; large 25c; 3-oz. can 40c; 6 ozs. 75c; 12 ozs. \$1.35.

**CARCO VEGETABLE SPRAY**—For destroying and preventing grubs and maggots on turnips, radish, cabbage, etc. Use 1 part Carco to 125 parts water. Descriptive pamphlets and testimonials on request. **Prices:** ½ pint 50c; pint 75c; quart \$1.25; gallon \$2.75.

**CYANOGAS A**—The fumes of this powder kills rats, moles, gophers, ants, etc. A spoonful to a hole or use a powder gun. 1-lb. can 75c; 5 lbs. \$2.50; 25 lbs. \$5.25.

**CYANOGAS G**—Prepared especially for fumigation of greenhouses to kill aphis, blackfly, greenfly, whitefly, thrips, and soft scale. This fumigant is very effective and highly recommended by leading florists. Descriptive pamphlets on request. 1-lb. can 75c; 5 lbs. \$3.00; 25 lbs. \$10.00; 100 lbs. \$30.00.

**CORROSIVE SUBLIMATE**—For treating potatoes, grain, etc. 4 ozs. 75c; 8 ozs. \$1.25.

**FISH OIL SOAP**—For aphis, plant lice, etc., and to mix with Black Leaf 40 to make it stick to foliage. Small cake 10c; lb. 25c; 10 lbs. \$2.00; 100 lbs. write.

**FORMALDEHYDE**—For treating grain, potatoes, and bulbs. Pint 60c; qt. \$1; gal. \$3.25.

**GAS BALLS (Rodent Killer)**—A new product of real merit to eradicate ground squirrels, prairie dogs, rabbits, and pocket gophers. When these gas balls are lighted and rolled down into the burrow they produce a deadly, poisonous gas that carries death to any living rodent in the burrow. They are non-explosive

and non-poisonous to handle. Use one or two balls per burrow. Safe, sure and inexpensive. Full directions with each order. **6 for 30c; doz. 50c; 3 doz. \$1.25; postpaid. Carton of 125 balls \$3.00. Weight 14 lbs, postage extra.**

**GRAFTING WAX**—¼ lb. 25c; ½ lb. 35c; 1 lb. 60c. Add postage if wanted by mail.

**HELLEBORE POWDER**—For killing slugs, currant worms, etc. Non-poisonous to mankind. Use as a powder or 1 oz. to 8 gal. water. ½ lb. 40c; lb. 75c; postage extra.



**WITHOUT DANGER** to humans, livestock, pets or fowl with

### JND RAT-I-CIDE

Requires no mixing. A complete ready-to-use bait and killer. Simply place in small piles where rats or mice frequent. It does not deteriorate and can be left out indefinitely. Not a poison. Household size 50c; lb. can \$1.50.

### QUICKLY KILLS GARDEN PESTS

Science provides new, safe method that does the work without fuss. Cutworms, sowbugs, grasshoppers, slugs, snails, earwigs, etc., are exterminated.

**SNAROL** is a ready-prepared meal that you simply broadcast on the ground under the vegetation. The pests eat the meal and are quickly destroyed.

Snarol will not deteriorate from rain or sprinkling, and also is non-injurious to vegetation when used according to simple directions. 1½-lb. pkg. 35c; 4-lb. pkg. 75c; 15-lb. bags \$2.50; 50-lb. bags \$7.00.



### KILLS ANTS IN THEIR NESTS

New method "Gets" them at their source—safe, permanent, effective. The Antrol system is adapted to any size house or garden, and quickly destroys all species of sweet-eating ants. It is composed of small glass containers partially filled with syrup and placed about the outside edges of the house or along ant "trails" in the garden. The ants smell the syrup, eat it and then transmit its mild poison to the queen in the nest. Soon the entire ant colony is destroyed. Antrol sets containing 4 containers and 1 4-oz. bottle of syrup 85c; Antrol extra containers, each, 15c; Antrol syrup, 4-oz. bottles, 35c; pints 75c; gal. \$3.00.



**We cannot send poison through the mail. Ask for Spraying Guide**

## SPRAYS, INSECT AND RODENT KILLERS — (Continued)

Full directions for using on each carton or package.

### SPRAY YOUR PLANTS THIS NEW, SAFE WAY



Effective against most other plant pests, including cucumber and melon beetles, cabbage worms, rose slugs, leaf hoppers, currant worms, etc.

**SAFE**—Kills only insects—harmless to man, livestock, birds and pets.

**NON-INJURIOUS**—Spray freely on the tenderest plants. Won't injure the ground.

**EASY TO USE**—Just mix with water and stir. No unpleasant odor.

**WON'T GUM SPRAYERS**—No bad effects on metal or rubber. Stays in solution and can't clog sprayers.

1-oz. bottles .....	\$ .35
6-oz. bottles .....	1.00
16-oz. bottles .....	2.00
32-oz. bottles .....	3.50
1-gal. bottles .....	11.50

Ever Green can be sent through the mail



It is a non-poisonous preparation for control of root maggot on brussels sprouts, cabbage, cauliflower, kale, broccoli, onions, radishes, turnips, rutabagas, and other vegetables.

2-pound can .....	\$ .35
10-pound bag .....	1.25
25-pound bag .....	2.25
100-pound bag .....	8.00

Add postage if wanted by mail

**NICO-FUME LIQUID**—For spraying or vaporizing. ¼-lb. tin 75c; 1-lb. tin \$2.00; 4-lb. tin \$6.25; 8 lbs. (gal.) \$11.50; Cannot mail.

**NICO-FUME FUMIGATING PAPER**—Per can of 24 sheets \$1.25 (wgt. 1 lb.); 144 sheets \$5.25 (wt. 4 lbs.); 288 sheets \$9.50. (P, F, wgt, 8 lbs.) Add postage if wanted by mail.

**NICO-FUME TOBACCO POWDER**—Full information on cans. 1-lb. can \$1.00; 5 lbs. \$4.00; 10 lbs. \$7.50; postage extra.

**PARIS GREEN**—Poison. Be careful. Usually four to six ounces to fifty gallons of water will be satisfactory. ¼ lb. 25c; ½ lb. 40c; 1b. 75c.

**RAT POISONS**—We have tried out dozens of kinds and recommend the following as being the best.

### STEARNS' ELECTRIC RAT AND ROACH PASTE GOODS READY FOR USE

**To Kill Rats and Mice**—Apply the paste thick on cheese or any other food they will eat, leaving it in places frequented by them. Repeat every night until the rats and mice have entirely disappeared.

As soon as they have eaten the paste it causes intense pain in their stomachs, and they disappear at once, seeking fresh air and water. **Price 35c.**

**RAT NIP**—It's a paste in tin tubes. Squeeze it out on bread, etc. Rats and mice can't resist it. **Price 35c.**

**SULPHUR POWDER**—(Flour)—1 lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 100 lbs. write,

**SEMESAN—SEED DISINFECTANT**—Controls diseases, improves and hastens germination, produces sturdier plants, increases crop yield and improves quality. There is no question about the value. Semesan is a powerful powder, used as a dust or mixed with water for treating all kinds of seeds, roots, tubers, and bulbs. Write for free leaflets and booklets giving full information. Leaflets on special crops if asked for. **Prices: Dupont Semesan**—For most crops. 2 ozs. 50c; 8 ozs. \$1.00; 1b. \$2.75; 5 lbs. \$1.00. Larger quantities, write. **Semesan Bel** for potatoes: 1 lb. \$1.75; 5 lbs. \$8.00; 25 lbs. \$37.50; 100 lbs. \$140.00,

### ANTROL ANT AND ROACH POWDER



Antrol Laboratories, Inc., is pleased to announce the latest addition to its group of popular pest controls—**Antrol Ant and Roach Powder**.

This improved fast killing powder is packaged in an attractive handy shaker twist-top can, containing 2½ ounces of powder—to sell at the same price as ordinary 2-ounce punch-top cans.

These exclusive package features, plus the superior quality and proved effectiveness of Antrol Ant and Roach Powder, make it a companion to Antrol and Snarol of which we are justly proud.

We recommend Antrol Syrup for permanent control—Antrol Ant and Roach Powder for temporary quick relief. **2½-oz. pkg. 15c**

### HOW TO GET RID OF SOWBUGS

**Follow Carefully**—Antrol brand sowbug control should not be broadcast or scattered, but should be applied in narrow trails around infested areas. Spread it along the borders of walks, along walls of buildings close to foundations, or wherever sowbugs are present. Do not apply directly on plants or other vegetation. The effectiveness of this preparation is destroyed by water, therefore, do not sprinkle for at least 24 hours after using. Antrol Brand Sowbug Control is poisonous and should be touched with the hands. Use an old spoon or some similar implement and apply as directed above. **1½-lb. package 50c; 5-lb. package \$1.60.**

**TREE TANGLEFOOT**—A sticky compound to band trees or large plants to prevent crawling insects from going up the stalks or trunks. **1-lb. can 60c; 5 lbs. \$2.75; 10 lbs. \$5.25; postage extra,**

**TOBACCO DUST**—1 lb. 15c; 10 lbs. \$1.25.

**WEED KILLER**—For killing grass and weeds on tennis courts, paths and roadways. Use 1 part Weed Killer to 40 parts of water and apply with sprinkling can. **Qt. 65c; gal. \$1.85; 5 gal. \$8.00.** Write for barrel prices.

**WHALE OIL SOAP**—For aphids, plant lice, etc. **Bar 20c; 100 lbs. bulk \$12.00; f. o. b. Portland,**

**WOOD-LARK SQUIRREL AND GOPHER POISON**—Ready for instant use, never fails. Should be used early in the spring when green food is scarce. Place a few kernels near the burrowing place of the animals. Care should be used in placing it so as not to destroy song birds. **1 lb. cans each 50c.** Cannot be mailed.

POISONS CAN'T BE SENT BY MAIL

## GARDEN TOOLS AND SUPPLIES

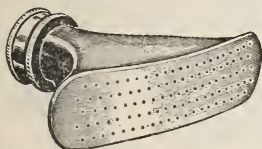


**"CRESCENT" FOUNTAIN SPRINKLER**  
Patented

A ring sprinkler that throws all the water to the front and sides..

Price 75c

**"FLARING ROSE" SPRINKLER**

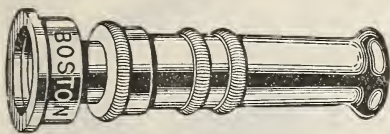


Its small perforations emit a fan-like sheet of tiny jets that are just like gentle rain.

When turned towards beds of plants or flowers, it does not cover the adjoining house or walk but goes right to the place desired.

Its fan like shape makes it especially easy to handle. It is unexcelled for sprinkling small, grassy places.

Each 65c

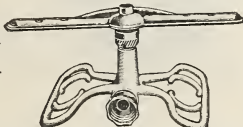


In the Boston Nozzle the spray is formed by a brass point coming down into the stem. It is made of solid brass, heavy and graceful in appearance.

The Boston gives a fine or coarse spray, solid stream and complete shut-off. Each 60c

**JEWEL SPRINKLER**

Nothing to adjust—  
simply let 'er run



On the lawn and in the garden, with 40 lbs. pressure, it will sprinkle uniformly a circle 50 feet in diameter—2000 square feet. Ea. \$1.25

**"PERFECT CLINCHING" HOSE MENDER**

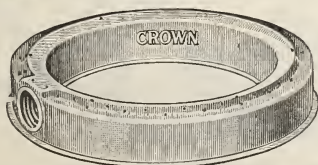


Slip in the hose and hammer down—that's all.

1/2-in., 3/4-in., 5/8-in., Each 15c

2 for 25c

(Patented 1919)

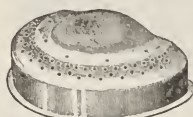


**"CROWN" FOUNTAIN SPRINKLER**

Extra Heavy—Built to Stand the Knocks  
Highly polished and packed one to a display box. Top made of heavy brass, with bottom of extra heavy brass or cadmium plated steel. Diameter 8 1/2 inches.

Each \$1.00

**"HANDY" FOUNTAIN SPRINKLER**



NOT VERY BIG  
COSTS VERY LITTLE  
(Patent Pending)

It Sprinkles as Much Ground as the Big Ones

Throws all the water to the front and sides, giving a beautiful fountain spray.

You can walk up to it and adjust it after the water is turned on. It's handy. The swivel nut prevents tipping over.

The weight of the metal (22 gauge) and shape make it proof against hard knocks. Width 5 inches. Brass top, with brass or cadmium plated steel bottom.

Each 50c

**"NO. 1 WHIZ" SPRINKLER**

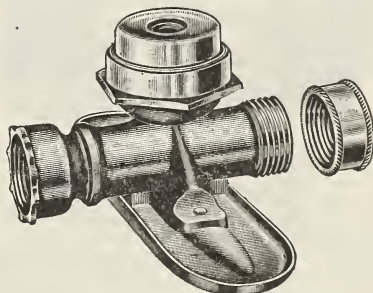
It has far throwing, smooth running "Whiz" head, with finished bronze bearings for deflector, at top and bottom. The upper bearing is adjustable for taking up wear. The head is heavily plated. Non-breakable, malleable, rust-proof base.

Swivel, brass hose connection, height 6 inches.

Each \$1.00

**"WHIZ" HEAD**

Threaded at base with 3/8, 1/2, or 3/4-in. pipe thread. Malleable casting, heavily plated. Heads only, each 50c.



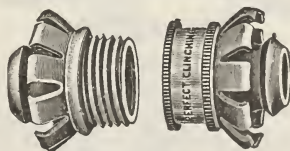
**"CRICKET" SPRINKLER**

The Cricket has hose connections at either side, permitting several sprinklers to be used on one line of hose at one time.

Adjustable spray valve in each sprinkler makes possible exactly uniform sprays. Without adjustment sprinklers throw out too strong near the silcock and too weak at the end of the hose.

The number of Crickets in a series and the distance they are to be spaced apart depend entirely on the water pressure. One threaded cap is furnished with each set of 3 Crickets.

Strong and rugged—it will not be damaged by dragging around. Each \$1.25; set 3 \$3.00



**"PERFECT CLINCHING" HOSE COUPLING**  
(Patented 1919)

Slip it on the hose and hammer down—that's all. Sizes: 1/2-in., 5/8-in., 3/4-in., pair.....25c

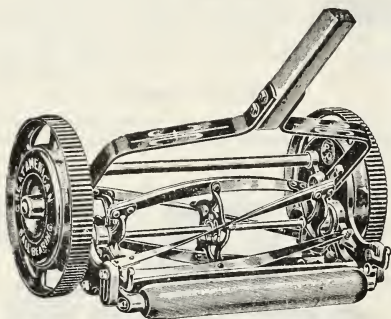


#### FLOWER BED BORDER FENCE

**American**—Made of stiff steel wire pickets of No. 9½ wire, firmly bound together with lateral cables made up of two strands of No. 13 wire, pickets 3 inches apart. All wires thoroughly galvanized to be proof against weather conditions.

The fabric is of an attractive design. It will present a very handsome appearance, and give permanent protection to flowers, vines and other plants along the sidewalk, house or in the center of lawns. The long ends of pickets can be easily pushed into the ground and will hold the fence in any position desired.

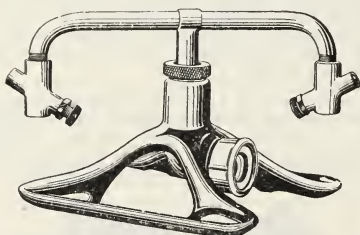
Height	Approx. height above	Wt. Ft.	Foot
16 .....	12	.579	10c
22 .....	18	.727	13c
165 lineal feet in a roll			



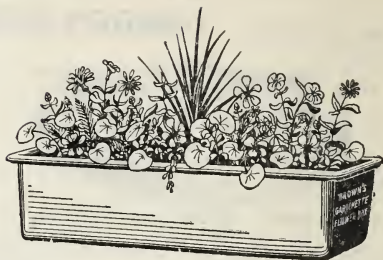
#### GREAT AMERICAN BALL-BEARING PENNSYLVANIA QUALITY

Open cylinder, 5 blades, 10-in. wheels, "Stay-tite" handle. Solid cast steel cutting knives, hardened and tempered in oil. Steel balls used of highest grade, placed in dust-proof covered steel cups, adjustment is unequalled; ratchets or pawls are cast steel, hardened, tempered, noiseless in action; self-sharpening dead knife of solid cast steel, which can be adjusted to cut grass ⅜ to 1¼ inches from the ground.

Cut, inches .....	15	17	19
Weight each, lbs. ....	66	68	74
Each .....	\$19.50	\$21.75	\$24.50



**WHIRLING SHOWER**—Satisfactory for any kind of a sprinkling condition. Will operate efficiently with high or low pressure. Has numerous applications, from sprinkling a fine mist to a coarse stream; from an extremely large circle to smallest circle; for stationary sprinkling over small or large area. The use of special brass bearing results in freest running lawn sprinkler known. Stop may be moved up for adjustment for size circles desired. Brass parts are finished. Balance of sprinkler is finished in a bright red. Ea. \$2.75



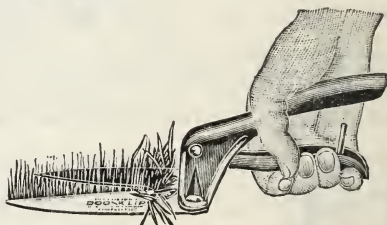
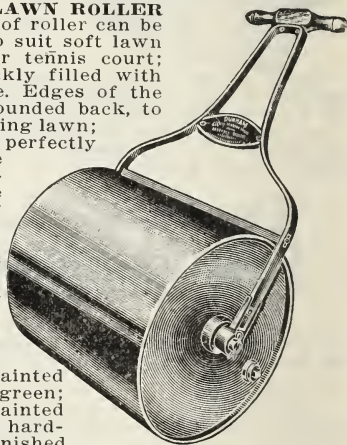
#### BROWN'S GARDENETTE FLOWER BOX—

One of the best of this type of flower boxes. Made of the best grade of galvanized steel with neat, round corners and a full roll rim—beautifully finished. 36-in. long \$3.25; 42-in. long \$4.25; brackets, each 60c.

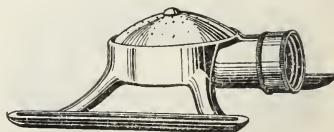
#### DUNHAM LAWN ROLLER

The weight of roller can be regulated to suit soft lawn firm turf or tennis court; can be quickly filled with garden hose. Edges of the drum are rounded back, to prevent cutting lawn; all seams perfectly smooth. The heads of roller are made from heavy high-carbon steel plates; all seams are welded, making a strong one-piece container for the water. Drum is painted a bright green; frame is painted red with a hardwood varnished top handle.

No. 4—Diameter of drum, 18 inches; length, 24 inches. Weight empty, 75 lbs.; filled with water, 274 lbs.; filled with sand, about 400 lbs. Each \$18.75.

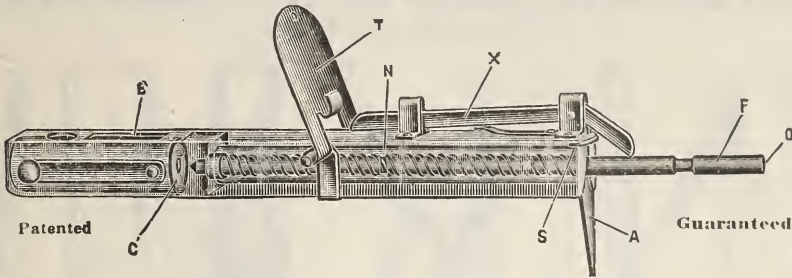


**DOOKLIP**—Operates with an easy up and down motion with hand and wrist in a natural position. Blades self-tensioning and self-sharpening. Handles in green enamel. Each \$1.25



**READY SHOWER**—One of best lawn sprinklers on market; has no revolving parts to wear out and will not clog with sand or dirt. Gives an even distribution of water over large area. Fineness and symmetry of its spray makes it especially desirable for new lawn and flower gardens. Location can be changed while under full working head with ease. Each \$5c

## GARDEN TOOLS AND SUPPLIES



Complete instructions with each gun

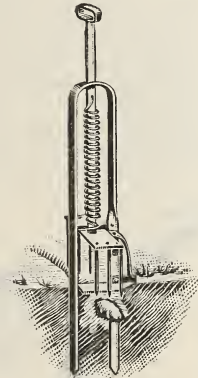
Load gun with a 38 S. & W. blank cartridge and set in gopher tunnel. Within a few minutes the gopher will attempt to close the hole setting off the gun. The concussion kills them

every time. For moles, dig down to main run and set same way. **Price each \$2.00, 1 doz. blank cartridges 35c; 2 doz. 55; 50 85c.**

### MOLE TRAPS



**Cinch Special**

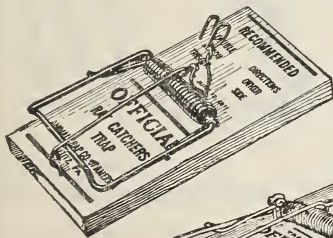


**Reddick**

**REDDICK**—Tinned steel frame, japanned steel coil spring; 6 steel proongs. 5 in. long. **Each \$1.00**

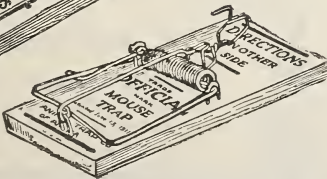
**CINCH SPECIAL**—A safe, successful device for catching moles. Easy to operate. **Each 75c**

### MOUSE AND RAT TRAPS



**Mouse**

**Rat**



**OFFICIAL**—Double action trigger; releases either by upward nibble or downward pressure; heavy spring; extra heavy, well seasoned block; clinched staples.

**Mouse**—Size 2x3 3/4 inches, each 5c; **Rat**—3 3/4 x 7 inches, each 20c.



**OUT-O-SIGHT**—Malleable iron, japanned; steel lever. Directions for setting and full explanation of the mole's habits furnished with each trap. **Each \$1.25.**

### GOPHER TRAPS



**MACABEE**—Made of coppered steel wire, painted. **Each 25c.**



**SIMPLEX**—Heads are of best grade malleable iron, smoothly machined, and attractively painted. Handles are 42-inch clear fir, triple coated in natural enamel. **Each \$1.25.**



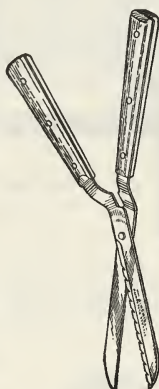
**HAVILL**—Steel fork, 2 1/2 inches long; brass ferrule; 7-inch handle with knob to protect the hand. **Each 50c.**

# "VILLAGE BLACKSMITH" BETTER GARDEN TOOLS

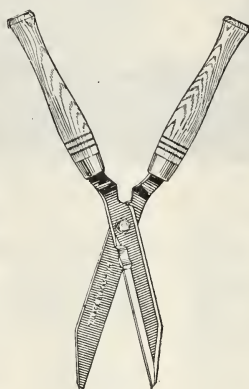
SHEARS—THE BETTER KIND



V.B.-600



S.T.-08



V.B.-800



V.-128



V.-179



V.-21

## LADIES' HEDGE SHEARS

Full polished blades with green enameled handles. Selected well finished hardwood handles, securely riveted to blades through heavy

### SERRATED BLADES

No. S.T.-08—Blade cut, 8 inches....Each \$2.75  
Approximate weight  $2\frac{1}{2}$  lbs.

### NOTCHED BLADES

No. V.B.-800—Blade cut, 8 in., ....Each \$2.25  
Approximate weight,  $2\frac{3}{4}$  lbs.

All sizes have cutter knife and notch

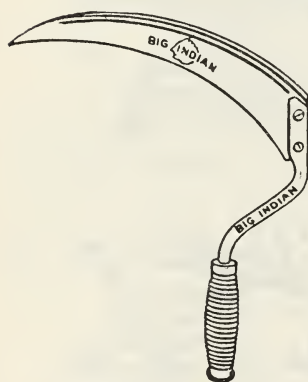
## PRUNERS

No. V-128— 8 inch, forged cutlery steel Green enameled handles. Blued steel Volute spring. Each .....\$1.00

No. V-179—9 inch, one piece carbon steel drop forged. Carefully tempered. Ground and set to cut clean and shear perfectly. Full polished blades. Green enameled handles. Volute spring. Each .....\$1.25

No. V-21—9-inch. California pattern. Full polished handles. Heavy bolt and special ratchet nut. Heavy brass springs. Each....\$2.50

## GRASS HOOKS



No. 1—Big Indian



V.B. No. 4



V.B. No. 33



V.B. No. 1



V.B.-F-30

No. 1—Big Indian—Scythe pattern. Tempered and polished crucible steel blade. Durable malleable shank, aluminum bronzed finish. Corrugated green enameled handle riveted to shank. Each.....\$1.00

V.B. No. 4—German pattern. Made of cutlery steel, tempered. Ground wide, thin and sharp. Riveted stained handle. Each.....65c

V.B. No. 33—Grass hook. Highly polished, tempered, whetted sharp. A perfect balanced hook. Varnished maple handle secured by three large rivets. Each .....75c

V.B. No. 1—Forged, tempered and ground sharp, hammer finish. Riveted green stained handle. Each .....65c

V.B. No. F-30—Spading forks—forged, 3-tine. Polished and green enameled. Length 11 inches. Hardwood handle. Each.....50c



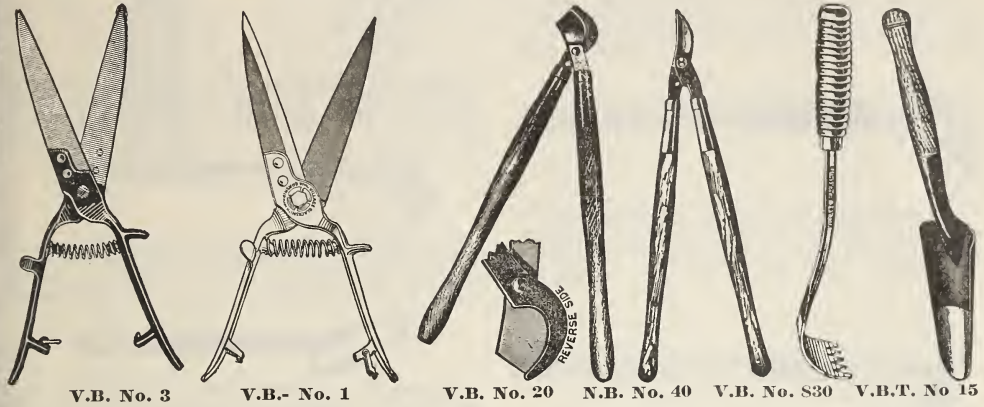
## BOTTLE SPRAYER

Made of brass, nickel plated and not affected by spray solutions. Furnished complete with bottle. Nozzle is adjustable for very fine or coarse spray. Useful for spraying disinfectants, house plants, etc. Weight 1 lb.

No. 375—Bottle Sprayer, \$1.50

# "VILLAGE BLACKSMITH" BETTER GARDEN TOOLS

## BETTER GARDEN TOOLS



**V.B. No. 1**—Tempered, full hollow ground cutlery steel blades with wider and longer opening and cutting edge. Responsive, smooth and easy spring action. Convenient latch—Super malleable red baked enameled handles. Length 13 inches over all. Weight one pound each. **Each \$1.25**

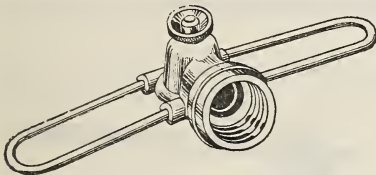
**V.B. No. 3**—Six-inch carbon steel blades. Blue enameled handles. Weight one pound each. **Each \$1.00**

**No. T-15**—6-inch one-piece crucible steel blade and socket, half polished and green enameled. 8½-inch handle. **Each 50c**

**V.B. No. 20**—26 inches overall. Selected waxed ash handles. Heavy ferrules, gold bronzed. Weight 2½ lbs. each. **Each \$2.00**

**V.B. No. 40**—26 inches overall. California pattern. Selected wax ash handles. Heavy ferrules, gold bronzed, wgt. 2½ lbs. ea. **Ea. \$2.50**

**No. S30**—Forged from ¾-in. octagon tool steel tempered. Five-prong blade. Polished. Width 2 inches, length over all 12 inches. Green enameled, corrugated handle, riveted. **Each 50c**



**V.B. No. T19**—Non-corrosive—won't clog—with clean-out brass plug. Equal distribution of water over large area. Base 8 inches wide. Can be pulled about the lawn without tipping. **Each 75c**

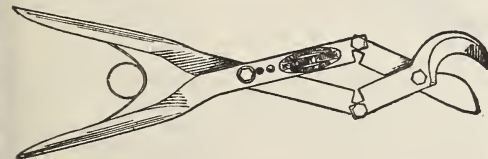


**V.B. No. T25**—6-inch. Transplanting. One-piece heavy rolled steel. **Each 25c**



**V.B. No. T20**—6-inch rolled steel, riveted blade, half polished and green enameled. Malleable tang. **Each 25c**

## THE IMPROVED ALL-STEEL McKENNEY TREE PRUNERS



No. 0 "McKenney" Pruner



No. 1 "McKenney" Pruner

"The most powerful, easiest and fastest cutting pruner made." "The only compound leverage pruner in the world."

The only pruners that will cut branch limbs close to the main limb, making better cuts than can be obtained by use of the finest tooth pruning saw.

The No. 0 is a one-hand pruner having compound leverage and two cutting blades. The blades are drop-forged from tool steel, the handles being smooth and round and easy on the hand. The spring used is quick acting. Pruner is so designed that it may be used in very thick shrubbery. Cuts limbs 5½-inch in diameter. Wgt. 1 lb., lngth. 15 in. **Each \$2.00**

The No. 1 cuts limbs one inch in diameter easily and perfectly. Lightest pruner on the market for size it cuts. Two cutting blades drop forged from tool steel. Handles are of steel and the hand grip designed so that it may be carried on the belt. Wgt. 2¼ lbs. Length 23 inches. **Each \$3.50**

## GARDEN TOOLS AND SUPPLIES



**FLORAL SHOVEL, No. FSD**—A light shovel for ladies' or children's use, suitable for planting shrubbery, transplanting potted plants, digging bulbs, etc. **Each \$1.00**



**STEEL FLORAL RAKE, No. TR6**—Curved teeth and narrow width permit working among flowers without injuring plants. Ea. 70c

**FLORAL HOE, No. TY4**—Light, sturdy tool for garden use by ladies, children. Ea. 90c



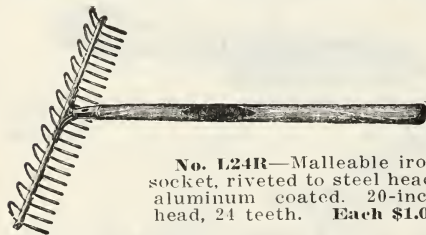
**ACME WEEDING HOE, No. A**—Two plow blades make convenient weeder. **Each \$1.25**



**SOCKET FIELD-GARDEN HOE, No. XXX7**—Extra thin, high polished blade. Finest product of the hoemaker's art. **Each \$1.40**



**SIX-TINE POTATO DIGGING FORK, No. P06D**—Round tines, blunt pointed. Ea. \$2.00



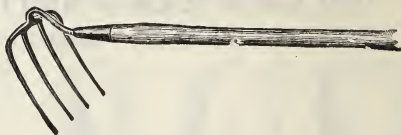
**No. L24R**—Malleable iron socket, riveted to steel head aluminum coated. 20-inch head, 24 teeth. **Each \$1.00**



**LAWN AND DANDELION RAKE, No. LDR**—The saw teeth do not tear the grass roots but exterminate dandelions by cutting off blossoms before seeds can mature. **Each \$1.00**



**SOCKET IRRIGATING SHOVEL**  
Long handle, round point, polished blade  
Size No. 2—Width 9½ inches, length 11¾ inches ..... **Each \$2.00**  
Size No. 1—Light pattern..... **Each \$1.75**



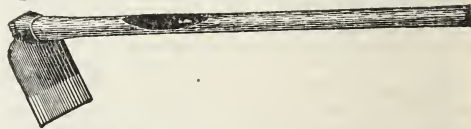
**POTATO HOOK, No. 5**—The swan neck gives good clearance. The diamond-faced tines pull an entire hill of potatoes and leaves the soil behind. **Each \$1.40**



**SPEEDY CULTIVATOR, No. SC4**—A time-saving tool for preparing the ground for seeding, and for cultivating. Usually useful around flowers and shrubs. **Each \$1.00**



**SPEEDY WEEDER OR MULCHER, No. SW9**—Soil flows over the narrow blade and returns to its original position, thus providing a mulch of loose soil. **Each \$1.10**



**GERMAN PATTERN HANDLED HOE, No. 00**—For clearing new ground of heavy weeds, briars, runners, and roots. **Each \$1.10**



**"EASY KUT" HOE, No. NH7**—The shallow blade and 3 sharpe edges make it unequalled for mulching and killing weeds. **Each \$1.25**



**WARREN HOE, No. W7**—For opening rows, covering seed, hilling, cultivating, weeding. Has more uses than any hoe made. **Each \$1.35**



Curved polished teeth, heads and end bows forged from one solid piece steel, bronze finish; 5½ foot XX quality handle.

Nos.	12B	14B	16B
Each	\$1.40	\$1.50	\$1.60
Tines	12	14	16
Width of head, inches.	12	14	16



### SPADING FORK

Four 12-inch heavy angular polished tines, 7¾-inch spread at points, strap ferrule, bronze finish. XX quality handle.

**No. S94**—4-foot long handle, each..... **\$1.75**

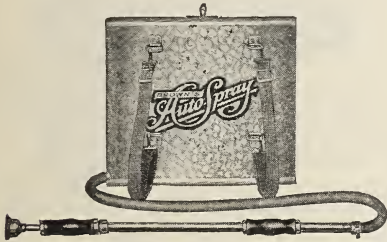
**No. E9D**—Steel D handle, each..... **\$1.75**



**BROWN'S AUTO-SPRAY No. 9**—An excellent all-around sprayer for trees, field crops, gardens, vines, poultry houses, etc. Patented screw lock. Plunger locks into cylinder, permitting entire pump to be taken from tank for refilling. Capacity 3½ gals. Equipped with 2-ft. 5-ply hose, Auto-Spray nozzle, 2-ft. ext. and auto-pop. No. 9-D galvan'd \$6.75; No. 9-B brass \$9.75.

**BROWN'S AUTO-SPRAY No. 50**—Built identical to No. 9, except smaller capacity, which is 2½ gallons. Especially adapted for the use of the women folk or children. Equipped with 2-ft. 5-ply hose 18-in. extension, Auto-Spray nozzle and autopop.

No. 50-D galvanized .....\$6.00  
No. 50-B brass .....\$8.50

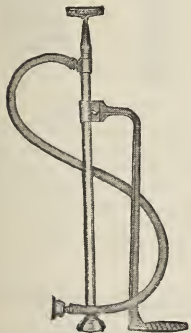


**BROWN'S AUTO-SPRAY No. 5**—Throws continuous spray on both up and down strokes, generating a pressure of 200 lbs., and will throw a stream forty to sixty feet.

Auto-Spray No. 5 Pump, hose, 4 special nozzles and strainer complete .....\$5.00

Auto-Spray No. 5-A Pump, complete as above, with 3½-gal. galvan'd tank as shown, \$8.00

No. 5-B Pump, complete as above, with 3½-gallon tank .....\$11.00



**BROWN'S AUTO-SPRAY No. 6** is generally acknowledged to be most powerful bucket pump manufactured, generating a pressure of 200 lbs. with remarkable ease. 15-in. foot rest permits its use with any size bucket. Complete with 3¾-ft. hose and nozzle.

Price \$4.50



**DUSTER BROWN No. 1**

A small ¾-pint duster. Direct action compression, very popular for small gardens and household plants.

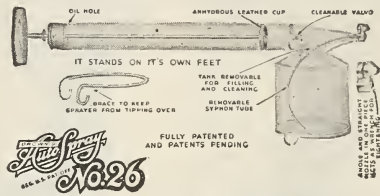
Price ..... 60c



**BROWN'S AUTO-SPRAY No. 26-AG**

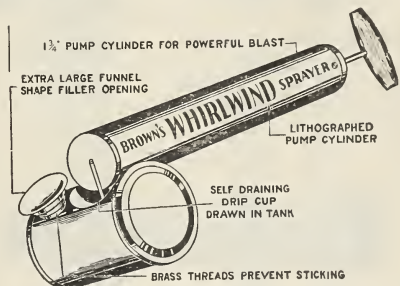
A new number—No. 26-AG with glass tank—There are many reasons why a glass tank on continuous atomizer is advantageous. It can be easily cleaned when a different type of solution is to be sprayed. Operator can tell how much liquid is in sprayer. Jar on this sprayer has a standard Mason fruit jar thread. Additional jars are easily obtainable. This atomizer has all mechanical advantages of the Auto-Spray No. 26-A, B, C, with the added advantage of the glass tank. Each \$1.25

*It Sprays Continuously*



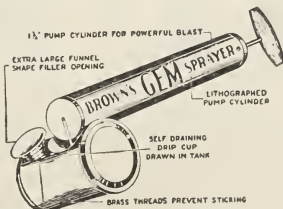
**BROWN'S AUTO-SPRAY No. 26**—This atomizer will spray insecticide in a continuous fog of such great volume that it will fill an ordinary room full of vapor in one minute. Uses any insecticide. Trouble-proof. Easily cleaned.

No. 26-A, all tin, 1 qt., with legs.....\$ .90  
No. 26-B, tin pump, brass tank 1 qt., legs 1.15  
No. 26-C, all brass, 1 qt., with legs.....1.50



**BROWN'S WHIRLWIND SPRAYER**

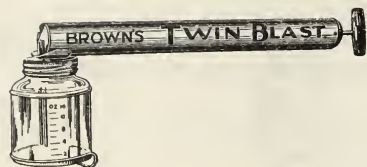
Strong, well-balanced, single action atomized. 1 qt. capacity, well made, durable, 50c



**LITTLE GEM SPRAYER**

Well made and durable; capacity ½ pint. Excellent for spraying household insecticides, fly killers, etc. Mailing wgt. 1½ lbs.

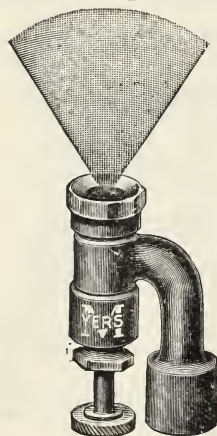
Price, Gem No. 25, each 40c



This glass reservoir, single acting, twin jet atomizer is efficient and powerful. It has a large 1 3/4-in. diameter pump, 18 inches long. It has a convenient drip cup which returns all drip to the reservoir. On account of its having two syphon tubes it throws a large blast of misty spray. **Each 75c**

Fig. 1563

Fig. 1564

Regular Vermorel Nozzle  
80c

All Vermorel Nozzles fitted with two renewable plates, giving fine and coarse spray.

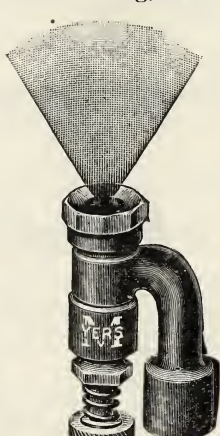
Graduating Vermorel Nozzle  
80c

Fig. 1325



3/8 or 1/2 inch hose, 1/4 inch pipe

### THE MYERS SPRAY NOZZLES

All fruit growers rightly contend that nozzle is most important part of spraying outfit. It must be arranged to throw a mist and not drops. It is also a fact that more harm is done by using sprinkling nozzles than if no spraying was done at all. By putting on too much material you damage the foliage. The best results are obtained by covering the entire surface and with just as little in one place as possible.

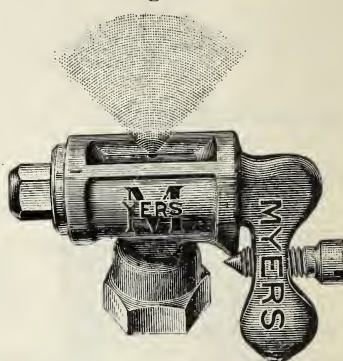
Fig. 1564 is constructed on the general plan of the Vermorel Nozzle, with the improvement that the spray can be graduated from a fine mist up to a solid spray, carrying the stream a much greater distance. This is accomplished by adjusting the screw plunger by means of a thumb nut. The disgorger is operated by the screw plunger instead of spring as in Fig. 1563.

### BROWN'S CRYSTAL DUSTER



New and right up-to-date and double the capacity of the above. This dust blower has the glass jar feature showing the agitation and amount of dust in the container. The large opening in the jar enables easy and quick filling. The long extension and adjustable nozzle enables the operator to easily dust the under side of leaves. Capacity 1 pt. Parcel post weight 2 lbs. **Price \$1.25**

Fig. 2097



Bordeaux Nozzle, \$1.00

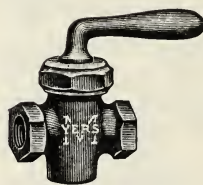


Fig. 1283

Fig. 1284



Fig. 224

Fig. 2097, Bordeaux Nozzle, will throw a fine fan-shaped spray and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream or it may be shut off altogether, as desired. Has double face; gives greater wear. All nozzle fitted with standard 1/4-in. pipe thread.

### FIG. 1283—LEVER SHUT-OFF COCK No Dripping

All brass, tapped 1/4-inch pipe size, Ea. \$1.00

**FIG 1284-BRASS HOSE COUPLINGS, SURE GRIP**—With heavy ribs, of sufficient length to use two hose bands for use with power spray pumps.

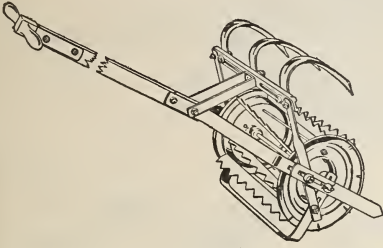
3/8- and 1/2-in. sizes. Complete, each 60c  
Female half (2 pieces).....40c

### FIG. 224—BRASS HOSE COUPLINGS

Size, inches .....	1/2	3/4
Complete, price each .....	35c	45c
Half coupling, female, each.....	20c	25c

# PLANET JR. SPEED HOE AND CULTIVATOR

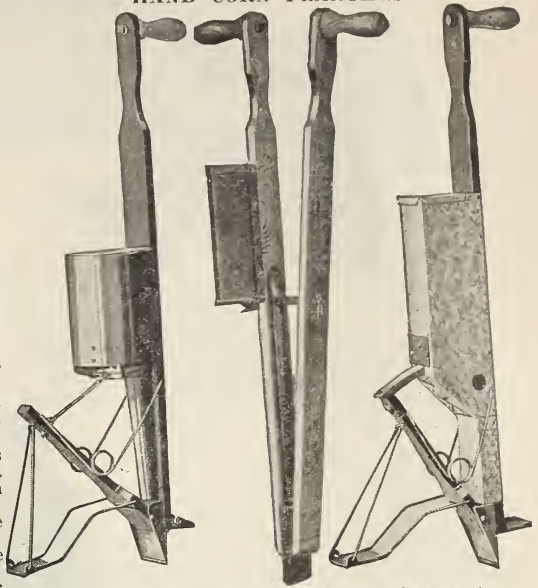
## HAND CORN PLANTERS



The Planet Jr. Speedhoe is a rotary type cultivator embodying a number of important features. You push it as you would a lawn mower and the revolving blades crumble the dirt against the following scuffle blade. This cuts off the weeds and leaves a fine surface mulch.

Here are some of the specific features of the Speedhoe.

1. The blades are saw-toothed to give better penetration and more complete pulverization.
  2. The scuffle blade is sharpened and is adjustable for depth and slightly for pitch.
  3. The leaf lifters are quite necessary in well grown crops and are adjustable.
  4. The handle is adjustable to suit the height of the operator.
  5. By turning the Speedhoe over it can be used as a general purpose cultivator.
  6. You can use on the Speedhoe other Planet Jr. attachments such as plows, rakes, three prong cultivator teeth, discs, and a seeder attachment.
- |                     |        |
|---------------------|--------|
| 8 inch, each .....  | \$7.75 |
| 10 inch, each ..... | 8.25   |
| 12 inch, each ..... | 8.75   |



Acme Rotary  
\$2.50 each

Acme Slide  
\$1.25 each

Segment  
\$2.00 each

## HAND POTATO PLANTERS

### PLANET JR. LIFETIME TROWEL



At least one Lifetime Trowel should be among everyone's garden equipment. The steel is light weight but very hard and will wear far longer than the ordinary trowel. The neck is especially designed and welded and guaranteed never to bend or break.

Each 75c, postpaid

### BULB TROWEL LIFETIME PLANET JR.



For transplanting or for planting bulbs or plants nothing is quite as good as this slim, sharp little trowel which slides so easily into the ground. The neck which is usually the weakest point is here the strongest. The handle is fastened in with a pin and can't come out.

Each 75c, postpaid

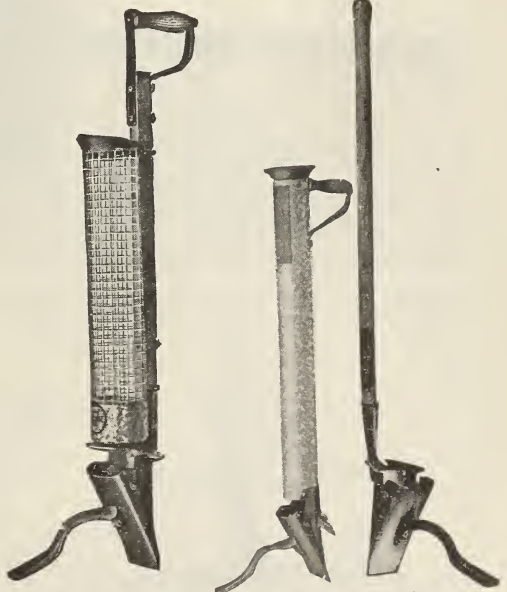
### PLANET JR. LIFETIME WEEDER



You can lay aside all the little hand cultivators and weeders you have ever used once you try this efficient little tool. You can scratch around even the smallest and tenderest plant, weeding and cultivating at the same time. The saw-teeth drag out the weeds or cut them off at the roots. Each 70c, postpaid

### PINGREE POTATO PLANTER

Similar to the tubular, but has no tube. You lift the planter up to drop in the potato. Parcel Post weight 5 lbs. Price \$1.25



Wire Tube

Solid Tube

Pingree

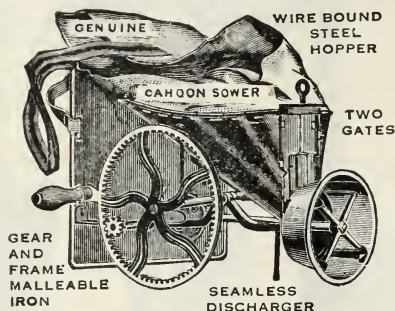
### WIRE TUBE POTATO PLANTER

The lightest strong planter; the strongest light planter. Is all steel. Wind resistance reduced to minimum. Cannot clog and fail to plant. Sharp jaws enter as easily as a spade. Weight, each, 6 lbs. Each \$1.50

### SOLID TUBE POTATO PLANTER

Has galvanized iron taper conveying tube, largest at bottom. Jaws of crucible steel, polished and self-locking, step for forcing jaws into the soil. Handle well braced and smooth. Each \$1.75

## BROADCAST SEED SOWERS



## CAHOON SEEDER

Made of steel, iron and brass; the most popular and best; force feed; does excellent work. Sows all grains and grass seeds. Weight 9 lbs. Instructions included. \$5.00 f.o.b. Portland



## CYCLONE

Sows any kind of seed perfectly even over the ground at the rate of 50 acres a day any amount desired per acre. Saves seed—soon saves its cost. Weight 8 lbs. Price \$2.25



**FASTEST OF ALL GRASS SEEDERS—THOMPSON'S SEEDER No. 11, \$15.50 each—**For broadcasting grass, sowing red top, clover, timothy and mixed seeds. Light, strong, simple.



## THE HORN SEED SOWER

Will sow 40 to 60 acres per day of alfalfa, clover, timothy, millet, etc. Spread seed evenly from 30 to 40 feet. Price \$1.00



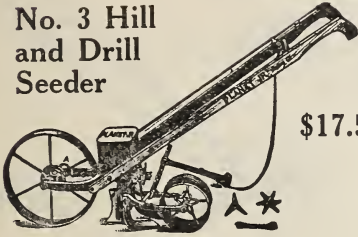
## LITTLE GIANT

Has a pressed tin, five-flanged distributing wheel, and lathe centered gearings, making it a very easy running seeder. Accurate gauge, force feed, steel frame, hand hold and shield. Weight, each, 4 lbs. Price \$2.40

ADD POSTAGE IF WANTED BY MAIL

# Planet Jr.

## No. 3 Hill and Drill Seeder



\$17.50

Made for the market gardener or farmer who has a good-sized garden. Hopper holds 3 quarts, enough to plant about  $\frac{1}{4}$  acre in seed. Plants practically all vegetable seeds in narrow, straight, continuous rows or dropped in hills 4, 6, 8, 12 or 24 in. apart. Marks next row at the same time. Seed control and shut-off located at top of handle, making easier operation.

## No. 300 Drill Seeder \$20.00



A drill seeder with new, accurate seed dropping device, large, wide-tread wheels, and of light but sturdy construction. Runs easily, sows accurately, in straight rows, marks out next row, covers seed and does everything a good seeder should do. Designed specifically for sandy soil or muck, but works equally well in any soil. Detachable hopper and scrapers.



planting in hot-beds and greenhouses. Many people have an idea that planting and cultivating a garden is hard work. It is if you plant by hand and cultivate with the ordinary hoe or cultivator. With the No. 35 you put a 5-cent packet or pint of seed in the hopper, set the seed index lever at the seed you are going to sow and start. The furrow is opened, the seeds are planted and covered as you go. There is no stooping and back-cracking and the job is done in much less time. The seeds are at an even depth and in straight narrow rows, making cultivating easier and quicker. Remember this attachment does not replace our regular line of seeders. It is intended for the small kitchen garden where the rows are usually short and not large enough to warrant buying a complete seeder. It is just as accurate as the larger models and the change from one seed to another is made in a few minutes.

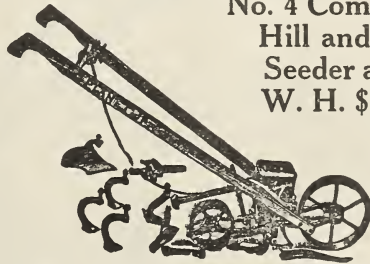
**PLANET JR. SEEDER ATTACHMENT No. 35**  
 Weight  $8\frac{1}{2}$  pounds ..... \$6.50  
 With handle  $9\frac{1}{2}$  pounds ..... 7.25

## No. 25 Combined Hill and Drill Seeder and D. W. H. \$21.50



"The Complete Gardener," plants practically all vegetable seeds at proper depth in narrow, straight, continuous rows or in hills 4, 6, 8, 12, 24 in. apart. Easily changed into a double or single wheel hoe. Attachments are those most needed—hoes for weeding and shallow cultivation—cultivator teeth for general and deeper cultivation and plows for furrowing, covering and weeding.

## No. 4 Combined Hill and Drill Seeder and S. W. H. \$18.00



The No. 4 is a combination of the most useful tool for home garden. Plants almost all vegetable seed in continuous rows or hills 4, 6, 8, 12, 24 in. apart. Plow adjustable for depth opens straight, narrow furrow, the seeds are dropped in it, covered and the soil firmed and the next row marked out in same operation. Converted into a single wheel hoe by changing one bolt. Cultivating equipment includes the most useful attachments—hoes for weeding and shallow cultivation, cultivator teeth for deeper and general cultivation, and the plow for furrowing and ridging.



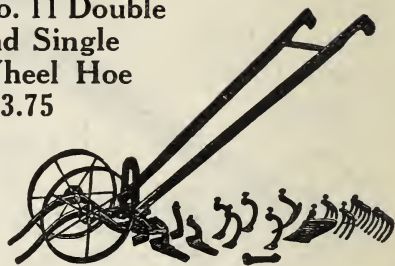
# Planet Jr. Garden Tools



**No. 16 Single  
Wheel Hoe**  
\$9.00

Equipment very complete including one pair 6-in. hoes for weeding and shallow cultivation, three cultivator teeth for general and deeper cultivation, one plow with landslide for hilling, ridging and plowing, one 3-tooth and one 5-tooth rake for fine, close cultivation and one leaf lifter which is useful in protecting overhanging leaves and vines. An ideal machine for family garden.

**No. 11 Double  
and Single  
Wheel Hoe**  
\$13.75

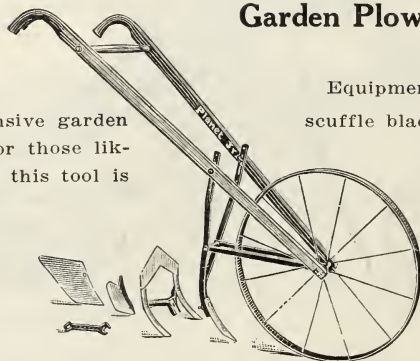


Equipment is complete, with one pair 6-in. and one pair 4½-in. hoes for weeding and shallow cultivation, 4 cultivator teeth for deeper and general cultivation, 1 pair plows for plowing, covering and ridging, 2 3-tooth and 2 5-tooth rakes for fine, close work, a pair of leaf lifters which lifts the leaves and vines out of way when plants are more fully grown. Frame is adjustable for rows of different width.

**No. 119**

**Garden Plow \$4.50**

A sturdy and inexpensive garden plow and cultivator. For those liking the high-wheel hoe this tool is the favorite.

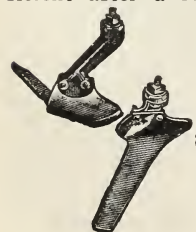


Equipment includes a large plow, a scuffle blade and three cultivator teeth.

**No. 2 Planet  
Jr. Edger**

**STAR  
PULVERIZER**

A very good tool pulverizing, leveling. Discs break up the soil and scuffle blade weeds, smoothes and cultivates. Especially efficient after a rain. \$3.25



**\$1.30 Pr.**  
6-in.  
S100-1 Hoes



**Disc Hoes**  
\$3.50 Pr.



**R-6 Plow**  
\$1.30

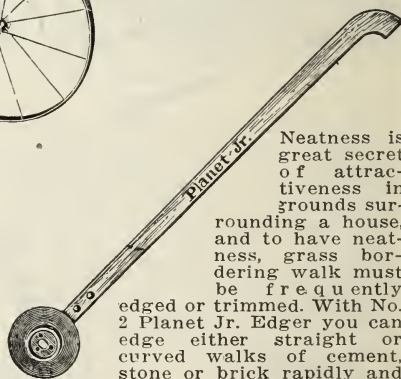


**M-N5 Plows**  
\$1.40 Pr.



**1395 Teeth**  
35c ea.

Neatness is great secret of attractiveness in grounds surrounding a house, and to have neatness, grass bordering walk must be frequently edged or trimmed. With No. 2 Planet Jr. Edger you can edge either straight or curved walks of cement, stone or brick rapidly and easily. The sharp edging is made of high-grade steel and will last for years. The tool is extremely simple and easy to operate, and there is nothing to get out of order. Your lawn mower needs an assistant—the No. 2 Planet Jr. Lawn Mower—to finish the job. \$1.60





# KEEP YOUR DOG WELL WITH DELCREO DOG REMEDIES



## DELCREO FOR DISTEMPER, BLACK TONGUE, PNEUMONIA, ETC.

In many of the most fatal diseases injury to the organs which result in the loss of the dog often occurs in early stages of the infection. Delcreo, if promptly administered, will quickly rid system of germs which cause disease. **Price 4 oz. bottle \$1.50; 16 oz. \$5.00.**

## DELCREO TONIC AND CONDITIONER

It is especially valuable for bitches in whelp and growing puppies. Destroys stomach parasites, including worms as they emerge from the eggs. Puppies conditioned with Delcreo show an even and healthy growth. Unquestionably best insurance against disease.

**Price per 2 oz. bottle 75c**

## DELCREO SOLUBLE SULPHUR OINTMENT

### A soothing and Healing Antiseptic Salve

For application in all skin affections, such as eczema, mange, pustular eruptions and sores produced by scratching or irritants. It readily heals cuts and wounds and is most adaptable for canines and felines, as it is absolutely harmless and will not hurt the animal if licked off. **Price 1 oz. jar 50c; 4 oz. jar \$1.50**

### SULFMINOL

## A Sulphurated Mineral Oil for General and Chronic Constipation

Sulfminol is a combination of pure White Mineral Oil with our Soluble Sulphur Compound. It has a high specific gravity. The mechanical action of the oil is greatly enhanced by the tonic and laxative properties of the sulphur. There is absolutely no interference with the muscular action of the bowels. Sulfminol corrects constipation without any after-effects. **Price 4 oz. bottle 50c; 16 oz. bottle \$1.50.**

## DELCREO TAPEWORM TABLETS

### How to give Delcreo Tapeworm Tablets

Give no food for eighteen hours and no water for twelve hours before giving the tablets and withhold food for three hours after dosing. No purgative is necessary. Give one tablet for small dogs, two tablets for dog of medium size and four tablets for large dogs. The dog should be kept under observation and the worm burned or buried. Weak or sick animals should be given diminished doses. **Pkg. 75c**

## DELCREO INSECT POWDER

Kills fleas, lice on dogs, cats, foxes and poultry. **Price, 3 oz. sifter top can, 50c.**

## DELCREO EYE LOTION

For weak, sore, running, mattered, inflamed eyes and lids and for film or abscess on eye. Strengthens weak eyesight. **2 oz. 60c**

## DELCREO SOLUBLE SULPHUR COMPOUND

An effective treatment for eczema, rheumatism or kennel lameness and as a blood purifier. It may be given as medication or may be added to the drinking water. **Price, 2 oz. bottle 60c; 4 oz. bottle \$1.00; capsules \$1.00 box.**

## DELCREO SOLUBLE BATH SULPHUR

For fleas, mange, eczema and other skin diseases. A mange cure, to be effective, must reach every part of the body to destroy the parasites which are distributed by rubbing and scratching. This is accomplished by our Bath Sulphur.

It is superior in every way to kennel soaps and dips containing coal tar, carbolic acid or other caustic chemicals. **Price: 4 oz. bottle \$1; 16 oz. bottle \$3.00.**

## DELCREO VITAMIN TESTED COD LIVER

Oil with Phosphor and Lactate of Lime

Especially beneficial for growing puppies. Promotes growth, health and stamina. An important factor in conserving calcium in the body and improving the calcium content of the milk of nursing animals. **Pint, \$1.25; qt. \$2.00.** Add postage if wanted by mail.

## DELCREO DOG SOAP

A pure, neutral, antiseptic soap for cleansing and stimulating the skin and coat. Prepared from the purest oils. It contains no injurious chemicals. It will kill fleas and prevent skin diseases. A skin tonic. The best dog soap on the market. **Price: 4-oz. cake 25c.**

## DELCREO WORM TABLETS

In order to simplify the treating of dogs and puppies for round or stomach worms, we have prepared the Delcreo Worm Tablets in two packages: "For Dogs" and "For Puppies and Toy Breeds." These tablets are very easy to administer and may be given to puppies of any age.

## Directions for Giving Delcreo Worm Tablets

Always give on an empty stomach

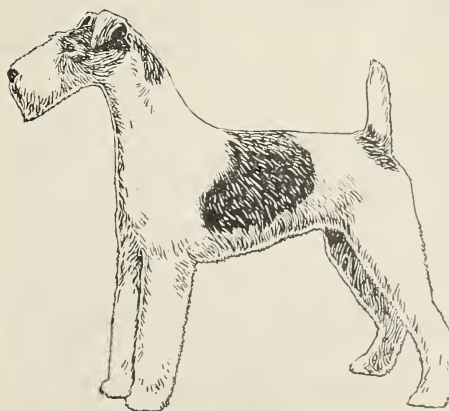
For puppies 2 to 6 months give one (1) to four (4) Puppy Tablets, according to age, breed and weight. **Each 65c**

For puppies under 2 months give one-half the dose.

For dogs give one (1) to four (4) Dog Tablets. **Each 65c**

Repeat the dose every two weeks until no worms appear.

No laxative is needed with Delcreo Worm Tablets.



(WILLBRAE)

## WIRE HAired FOX TERRIERS

### Puppies and Grown Stock For Sale

Show stock from Blue Ribbon Winners. The Finest of blood lines. No better stock on the Pacific Coast. Papers furnished. Ask for prices



# Q-W DOG REMEDIES

## WHAT "Q-W" STANDS FOR



The very best drugs are used, regardless of price, the same as supplied by the most exclusive doctors and hospitals for humans. The Q-W remedies are compounded from drugs as pure as those you would use on your own child. Some of these drugs are imported from foreign lands for the benefit of your dog.

**Q-W Mange and Flea Soap**—A wonderful sulpho-cresol cleanser, skin healer, vermin killer for dogs, cats, all other animals. **\$1.00 and \$3.00 sizes.**

**Q-W Condition Powder**—Blood purifier, stomach cleanser, digestion corrective, bowel regulator. Puts and keeps dogs in condition. Gives pep, ginger. **\$1.00 and \$3.00 sizes.**

**Q-W Mange Cure**—Instantly stops the itch, quickly heals up mange, eczema and other skin eruptions on all domestic animals, grows luxuriant hair on man or beast. **\$1.00; qt. \$3.25 gal. \$12.00,**

**Q-W Worm Expeller**—Expels in one hour all intestinal parasites from dogs, cats, foxes, rabbits, etc., including round, hook and seat worms. Quick, sure, safe. **\$1.00 and \$2.50 size**

**Q-W Tape Worm Expeller**—Quickly eradicates tape worms, expels head (the important part) as well as segments. **\$1 and \$2.50 sizes**

**Q-W Liquid Sulphur Compound**—For bathing dogs with itch, giving sulphur baths, cooling blood in eczema and giving dogs sulphur in their drinking water. Fine for sulphur baths for humans, too. **\$1.00 and \$1.75 sizes**

**Q-W Verminol**—Powerful disinfectant, germ and vermin killer, dog dip. Kills fleas, lice, mites instantly. **Pt. \$1.25; qt. \$2; gal. \$6.50**

**Q-W Phosphated Cod Liver Oil Compound with Lime**—Quickest food builder for wasting diseases, distemper, run-down condition, rickets, etc. Marvelous bone grower for pups. Indispensable in kennels. **Pt. \$1.25; qt. \$2.00; gal. \$7.00.**

**Q-W Tonic and Red Blood Builder**—Quick sure pick-up tonic for anemic run-down animals or humans. Valuable in distemper. **\$1.00**

**Q-W Distemperol**—For the treatment of distemper, carrying animal safely through disease. **\$1.00 and \$3.50 sizes**

### 60-MINUTE WORM REMEDY

A wonder in action, yet perfectly harmless to dog or pup. There is no danger or bad after-effects from this remedy—it is a vegetable compound and produces unflinching results within two hours, generally within 30 or 40 minutes. Use Sixty-Minute Worm Remedy and nothing else. Keep your pets free from worms and you will greatly reduce the danger of distemper, paralysis, eczema, etc. Every pup should be wormed when weaned and again every 2 or 3 months. Full instructions with every container. Prices, postpaid, **Small carton 6 doses, 60c; 15 doses, \$1.00; 36 or \$2.00; 75 for \$3.75; kennel size, 110 capsules, \$5.00.**

## Glover's Dog Remedies

An old and well-known line of dog remedies

	Sizes	Postpaid
Mange Medicine .....	.65	.75
Distemper Medicine .....	1.25	1.35
Vermifuge .....	.65	.70
Tapeworm Capsules .....	.65	.70
Worm Capsules .....	.65	.70
Sulphur Tablets .....	.65	.70

**Q-W Black Tongue Mixture**—For prevention and cure of black tongue. **\$2.00 and \$3.50**

**Q-W Flea Oil and Coat Grower**—For killing all vermin on dogs and other domestic animals without wetting, and keeping off flies, fleas, lice, etc. Instantly applied. Simply rub into coat. **Pt. \$1.00; qt. \$1.75; gal. \$6.00.**

**Q-W Constipation Pills**—Quick, safe laxative. No evil after effects. Splendid for humans, too. **\$1.00**

**Q-W Rheumatism Tablets**—For rheumatism stiff joints, partial paralysis and gout. Cures rheumatism in humans, too. **\$1.00**

**Q-W Liniment**—For sprains, bruises, rheumatic or muscular cramps or pains, kennel stiffness, and partial paralysis. **\$1.25**

**Q-W Fit and Sedative Tablets**—For fits, convulsions and nervous dogs. Soothes nerves, kills pain, promotes sleep. **\$1.25**

**Q-W Cough Mixture**—For colds, coughs and all bronchial troubles. **\$1.00**

**Q-W Diarrhea and Dysentery Cure**—Stops loose bowels, soothes and heals inflamed intestines. **\$1.25**

**Q-W Breeding Tablets**—For stimulating sexual powers in dogs. Makes males serve vigorously, bring backward bitches in season, induce conception. **\$2.00**

**Q-W Eye Salve**—For weak, sore, running, matted, inflamed eyes and lids and for film or abscess on eye. Strengthens weak eyesight. **\$1.00**

**Q-W Ear Canker Cure**—For internal sores, abscesses, cankers, etc., of the ear, causing dog to hold head on one side, scratch ear. **\$1.25**

**Q-W Flea Powder**—For dry-killing fleas on dogs, especially suited to small dogs and for use in winter **Per box \$1.00**

**Q-W Healing Salve**—The pride of Q-W, a wonderful quick healer for all sores, cuts, tears, ulcers, cankers, rashes, blisters, sore footpads, etc. Fine for hunting dogs that get torn up. Good for other animals, too, and for humans. **\$1.00 and \$3.00 sizes**

## Books on Dogs

All About Dogs (Henry Vibert).....	\$1.10
Amateur Dog Book (Bruette)—Training Care and Treatment (150 pages)....	.60
Amateur Trainer (Haberbein) .....	1.53
Airedale—All about (Palmer) .....	1.25
Airedale Terrier (Buckley).....	2.60
Boston Terrier .....	2.60
Bulldogs and All About Them (Fowler) ..	3.75
Common Sense Dog Doctor (Spratt's)...	.60
Dogs of All Nations (Mason) .....	1.25
Fox Terriers, The (Dalzell) .....	1.10
Fox Terrier, The Perfect (Ashley) .....	.70
Popular Dog Keeping (Maxtee) .....	1.25
The Collie (Dalzell) .....	1.25
The Police Dog (Meyer) .....	1.10
The German Shepherd (Police) Dog—In word and picture; the only complete work on this breed, by von Stephanitz	7.50
Shepherd Dogs—Schooling and Training	.85

# SPRATT'S DOG AND PUPPY FOODS

FOR EVERY AGE AND BREED

From tiniest puppyhood when SPRATT'S PUPPILAC proves the ideal weaning food until the time when, as a strong, healthy dog, he is thriving on PRATT'S crisp, meaty biscuits and nourishing meals, there are SPRATT'S DOG FOODS which cater to every stage of growth, every possible need. Ask us for a copy of "SPRATT'S HINTS ON THE CARE AND FEEDING OF DOGS." It's a 54-page book full of useful information for dog owners and it's free. If you have a puppy to "house-break" ask for a free copy of "SPRATT'S HINTS ON REARING PUPPIES."



## FOODS FOR PUPPIES

Spratt's "Puppilac" will raise puppies from birth if necessary. 10 oz. can 75c; 21 oz. \$1.50  
Spratt's Puppy Meal to be alternated with Puppilac. Lb. 20c; 2 lbs. 35c; 5 lbs. 75c

Spratt's Pepsinated Puppy Meal to be used if puppy is inclined to be weak or poorly nourished. 35c and 75c cans

Spratt's Bone Meal for Puppies to build bone and frame. 3 lb. can 50c

Spratt's Puppy Biscuits to be fed as soon as puppy gets teeth and is able to gnaw.

## FOODS FOR GROWN DOGS

Spratt's Dog Cakes, a meaty, crisp biscuit that should be the staple diet of all large dogs.

Spratt's "Kibbled" Dog Cakes; broken up to nut size.

Spratt's Ovals—A small oval biscuit that is relished by all dogs, large and small.

Spratt's Fibo—A granulated food that is especially nourishing and appetizing.

Spratt's C. L. O. Biscuits—Contain cod liver oil and intended for run-down dogs and a good change in diet for a dog.

Spratt's Charcoal Ovals—Every dog and puppy should have a full meal of these biscuits once or twice each week; stomach conditioner and gas absorber.



## PRICES OF SPRATT'S DOG AND PUPPY FOODS

	BULK				PKGS.	
	5 lbs.	10 lbs.	25 lbs.	50 lb.	100 lb.	Ap. 2 lb.
Dog Cakes (whole).....	\$.75	\$1.45	\$3.10	\$6.00	\$11.75	\$.40
Kibbled Dog Cakes ....	.80	1.50	3.20	6.15	12.00	..
Ovals .....	.80	.155	3.35	6.50	12.75	.40
Fibo .....	.85	1.65	3.60	7.00	13.75	.45
Charcoal Ovals .....	.80	1.55	3.35	6.50	12.75	.45
Puppy Biscuits .....	.80	1.55	3.35	6.25	12.25	.45
Cod Liver Oil Biscuits..	.80	1.55	3.25	6.50	12.75	.45
Puppy Biscuits .....	.80	1.55	3.25	6.00	11.75	.30



## SPRATT'S DOG AND PUPPY REMEDIES

Spratt's Worm Capsules for Grown Dogs—For round, maw and tape worms. Price 50c

Capsules—Safe to give 6 wks. old puppies. ...50c

Spratt's Tapeworm Tablets—Special remedy for tapeworms. Price 60c

Spratt's Special Tablets—For treating distemper. For puppy or grown dog kind. Price \$1.00

Spratt's Mange Medicine—For treating mange trouble. Price \$1.00

Spratt's Cooling Tablets—For clearing blood of all impurities. 50c

Spratt's Ear Canker Ointment—For both external and internal forms. Price 75c

Spratt's Cough Tablets—Generally effect a quick cure. Price 50c

Spratt's Constipation Tablets—A gentle and effective laxative. Price 50c

Spratt's Digestive Tablets— For indigestion. Price 50c

Spratt's Chorea Tablets—For chorea, St. Vitus dance, fits. Price 50c

Spratt's Diarrhea Tablets. Price 50c

Spratt's Dip—For washing, cleaning, etc. Every dog owner should keep on hand. 75c

Spratt's Eczema Ointment—An effective remedy for all kinds of skin diseases. 50c

Spratt's Purgative Tablets— Safe and effective. Price 50c

Spratt's Flea Soap—Fine for skin trouble. Price 25c

Spratt's Rubber Bones—A splendid play-toy for your puppy or dog. Price 60c

Spratt's Antiseptic Soap—For skin trouble, etc. Price 25c

Spratt's Flea Powder— A very efficient remedy for fleas, insects, etc. Price 30c

Spratt's Sorbo Dog Balls—Pure gum rubber. Provides plenty of exercise, amusement. Large size for large dogs.....\$1.00  
Medium size for medium dogs..... .75  
Small size for small dogs..... .50

We have a full line of Spratt's Imported Combs, Brushes, Leads, etc., and, if you will call at our store we will gladly show these goods to you.

ADD POSTAGE IF WANTED BY MAIL



# PULVEX Kills Fleas

on Dogs, Foxes, Cats, and All Pets, being Odorless and  
Non-Poisonous

## PULVEX

Pulvex is the new and remarkable dusting powder for animals and birds. Every pet fancier will welcome the arrival of this surprising substance which makes possible at last the thorough cleansing of the animals and birds of fleas, lice, ticks or mites in a single application. One application of Pulvex is enough, because Pulvex is thorough, because unlike ordinary powders, it actually kills the insects, not merely stunning or stupefying them. Pulvex is different in every way from anything else you have ever used. It is better, safer, and easier.  $\frac{3}{4}$ -oz. Canary size 25c; 2-oz. sifter top can 50c; 12-oz. pkg. \$1.25; 5-lb. pkg. \$6.00; 15-lb. pkg. \$15.00.

## KUR-MANGE

Internationally famous as dependable cure for many forms of mange Kur-Mange stands unique in the favor of dog and cat breeders as an odorless and non-poisonous preparation. Despite its great effectiveness it is entirely harmless to the animals. It contains no grease, oil, sulphides, or other objectionable ingredients and leaves in the coat nothing that will rub off.

House pets under Kur-Mange treatment need not be confined or denied the run of the home for they will not spot, stain or scent the house furnishings. The mangy animal need no longer be a social outcast during treatment.

Kur-Mange is a fine powder, to be dissolved in water and applied either as a wash, bath or dressing. In addition to mange it is highly effective in curing many superficial skin diseases, such as eczema and ringworm. Kur-Mange kills fleas, lice, ticks and mites in a single treatment. 6-oz. can \$1.00.

## SOPEX

All dog fanciers marvel at the prime condition and healthful beauty of the animals at the dog shows. You will be surprised to know that this perfection in grooming does not require tedious, painstaking hours, but can be obtained easily, quickly, and with no more trouble than an ordinary bath by using Sorex—the dog exhibitor's favorite shampoo.

Your dog can be easily kept in show ring condition with Sorex. Thorough cleansing, prompt destruction of fleas and lice, healthful stimulation of the skin and the development of the true natural beauty of the coat are the quick results of a Sorex shampoo. Sorex requires even less time than ordinary dog soaps because no rinsing is necessary. It imparts a glossy sheen to the coat and does not dry or tighten the skin. Fleas and lice are quickly destroyed by Sorex in a single bath. Sorex simplifies the grooming of your animal. A small trial package will quickly convince you.

2 oz. (makes one gallon) .....	\$ .50
4 oz. (makes two gallons) .....	.75
1½ lbs. (makes 12 gallons) .....	3.00
7 lbs. (makes 56 gallons) .....	10.85
20 lbs. (makes 160 gallons) .....	30.00

## OLD TRUSTY DOG FOODS

### "OLD TRUSTY" ALL TERRIER FOOD

A carefully mixed food of even balance, granulated to a medium size that quickly absorbs liquids—an ideal ration relished and desired by all breeds, particularly terriers and active dogs. Especially fine mixed crumbly moist with "Old Trusty" Climax or "Old Trusty" Se-Food. 5 lbs. 80c; 10 lbs. \$1.55; 25 lbs. \$3.35; 50 lbs. \$6.50; 100 lbs. \$12.75.

Add postage if wanted by mail

**"OLD TRUSTY" DOG CAKES**  
(Whole or broken)

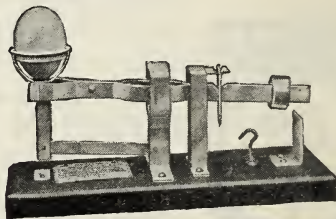
Three-inch squares of clean, wholesome nutrition. For chewing exercise substitute their crisp freshness in place of the tasteless bone that may splinter and end the career of your four-footed pal. 5 lbs. 80c; 10 lbs. \$1.55; 25 lbs. \$3.35; 50 lbs. \$6.50; 100 lbs. \$12.75. Add postage if wanted by mail.

### "OLD TRUSTY" CLIMAX

A beef product. Various parts of the beef animal such as glandular organs, meat, etc., make Climax unquestionably the peer of all canned foods. Thoroughly cooked to about the consistency of a meat loaf, containing no cereal or fillers to lower its wealth of nutrition. For rich broth add 3 parts hot water. 1-lb. cans. 24 cans to case. 1-lb. can 20c; 12, \$2.00; per case \$3.50. Add postage if wanted by mail.

### "OLD TRUSTY" SE-FOOD

A fish product. The Tuna and Mackerel from which Se-Food is made offers a distinct change that is highly beneficial. Packed absolutely fresh, a delicious flavor is retained that will whet the appetite of the most fastidious of man's best friends. Like Climax, no cereal is used to lessen its natural richness. 1-lb. cans, 48 cans to case. 1-lb. can 20c; 12, \$2.00; per case \$7.00. Add postage if wanted by mail.



HART TRU-WAY EGG SCALE

Fastest single egg scale made. Made for speed and accuracy in grading of eggs. Gives accurately the three grades of eggs without changing lever. Used exclusively by the Poultry Producers of Central California and many other packers of eggs. All parts of best quality steel treated by electric process making them rust proof. The beam rests on a knife edge, Making it frictionless. The egg cup pivots on knife edge steel and will weigh accurately with egg placed in any position. All wearing parts of hardened steel, making them last indefinitely. Price \$2.50.

# SPRATT'S CAGE BIRD FOODS AND SUPPLIES



**SPRATT'S ROLLER CANARY MIXTURE**—Contains a combination of 18 choicest seeds and will improve the health and develop singing power. Full size, 25c

**SPRATT'S MOULTING FOOD**—A valuable tonic mixture and a wonderful feather producer. 9-oz. pkg. price 25c.

**SPRATT'S MIXED BIRD SEED**—Well balanced mixture. 15-oz. pkg. price 20c

**SPRATT'S COLOR FOODS (Red and Orange)**—Deepens the natural color of the plumage. Purely vegetable. Pkg. 25c.



**SPRATT'S SONG RESTORER**—An invigorating tonic and treat for canaries and all kinds of cage-birds. Price 25c

**SPRATT'S SING SONG**—Appetizing food; bird will enjoy it. 15c

**SPRATT'S QUINELLA**—For all stomach trouble. Price 25c

**SPRATT'S CANARADYNE**—For asthma, wheezing, etc. Price 25c

**SPRATT'S MITALENE**. Price 25c

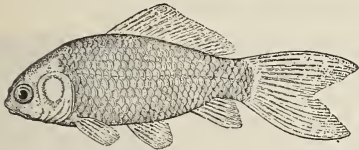
## SOFT BILL BIRD FOODS

**SPRATT'S MOCKING BIRD FOOD**—For mocking birds, robins, thrushes and all soft-billed birds. Tins 30c

**SPRATT'S ANTS EGGS**—A treat for soft-billed and insectivorous birds. Price 25c

**SPRATT'S ZEKE**—(Dried Flies)—A valuable food for all cage-birds, turtles, etc. 15c

## FISH FOODS



**SPRATT'S AQUARIUM FISH FOOD**—The best food for goldfish, etc. Price 10c

**SPRATT'S WAFER FISH FOOD**. Price 10c



**SPRATT'S C. L. O. NESTLING FOOD**—A wonderful food for raising young birds and a splendid tonic food for all birds the year round. 4-oz. pkg. 15c; 9-oz. pkg. 25c.

**SPRATT'S BIRD TONIC**—A splendid general tonic. Btls 25c

**SPRATT'S BIRD LICE DESTROYER**—A powder for dusting the feathers. Bellows 25c

**SPRATT'S RED MITE TRAP**—Will aid greatly in keeping cages free of red mites. Price 25c

**SPRATT'S BALD HEAD SALVE**. Price 15c  
**SPRATT'S SORE FOOT SALVE**. Price 15c  
**SPRATT'S FLAKE CHARCOAL**. Price 15c  
**SPRATT'S NESTING HAIR**—Sanitary and very satisfactory. Package 10c

## PARROT FOODS

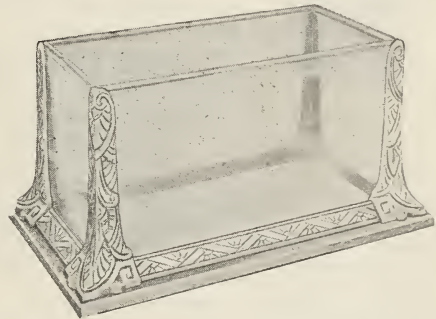
**SPRATT'S PARROT MIXTURE**—A mixed food which should be fed at all times. 16-oz. pkg. 25c.

**SPRATT'S POLLICRACKERS**—Your parrot will appreciate these specially prepared crackers. 10-oz. pkg. 20c.



**SPRATT'S PARRAKEET & LOVE BIRD MIXTURE**—A mixture of best seeds obtainable for these birds. Price 25c

**SPRATT'S PARROT TONIC**—Should be given occasionally especially during the moulting season. Price 30c



We carry a full line of Aquariums

## SPRATT'S CAT FOODS

**SPRATT'S CAT FOOD**—A whole and complete food for cats and kittens. Price 30c

**SPRATT'S MALTED KITTEN FOOD**—For weaning kittens. Price 35c

**SPRATT'S CATNIP LEAVES**—Very beneficial. Price 15c

**SPRATT'S CATNIP MICE**—Your cat will enjoy these. Price 15c

**SPRATT'S CAT WORM CAPSULE**—Price 60c

**SPRATT'S KITTEN WORM CAPSULE**—60c

**SPRATT'S CAT COUGH TABLETS**—60c

ADD POSTAGE IF WANTED BY MAIL

**SPRATT'S CAT CONSTIPATION TABLETS**  
Price 60c

**SPRATT'S CAT DIARRHEA TABLETS**.  
Price 60c

**SPRATT'S CAT ECZEMA OINTMENT**.  
Price 60c

**SPRATT'S CAT DIGESTIVE TABLETS**.  
Price 60c

**SPRATT'S CAT PURGATIVE TABLETS**.  
Price 60c

**SPRATT'S CAT TONIC AND CONDITION TABLETS**.  
Price 60c

**SPRATT'S SPECIAL TABLETS FOR CATS**  
—Treating distemper. Price 75c

# HALLER'S CANARY BIRD REMEDIES



## CANARY BIRD PIE

This tonic food and song restorer is prepared from a formula derived from 40 years' study of Canary birds and their diseases. It is a special remedy for loss of song, weakness, asthma, shedding of feathers out of season and many other ailments. It acts as a tonic and builder, and will cause a bird to resume singing when all other means have failed. Absolutely harmless, and contains only best ingredients. **Package 15c; postpaid 17c.**

## HALLER'S MOULTING FOOD

Is a wonderful tonic and especially made for canaries and all seed-eating birds. Should be fed during moulting when bird is weak and in general bad condition brought about in most cases by continual moulting. **25c; pp. 30c**

## HALLER'S CANARY LICE POWDER

Very effective remedy for lice, mites, etc., that are so troublesome to canaries and all other cage birds. **Package 25c; postpaid 30c**  
**HALLER'S SUPERIOR BIRD CAGE WASH**  
 Antiseptic, germicide, disinfectant, non-poisonous cage-wash, kills lice, eggs, relieves itching, stops birds from pulling its feathers. **Bottle 25c; postpaid 30c.**

## HALLER'S PARROT TONIC

Special preparation for parrots, will cure colds, remove slime from nose, eyes, restores parrot to good condition. **25c; postpaid 30c**

## Haller's Sun-Dried Japanese Peppers

An excellent blood purifier, will put bird in tip-top condition. **Package 10c; postpaid 15c**

## HALLER'S MOCKING BIRD FOOD

For Nightingales, Robins, Thrushes, Sky Larks, Black Birds, Minors Clarinos, and soft-billed birds, specially prepared food, mixed, put up exclusively by us, best ingredients, it will keep birds in beautiful plumage and song. **Bottle 35c; postpaid 45c**

## HALLER'S NATURAL FISH FOOD

Prepared with greatest care in our sanitary laboratory of best materials, ingredients of high protein content. Will keep your fish in a healthy condition, should be fed at regular hour once a day. **Pkg. 10c; postpaid 12c**

## HALLER'S ORIGINAL BIRD TONIC

Very excellent remedy for birds afflicted by loss of song, asthma, hard breathing, weakness of moulting, colds, shedding out of season, diseases of canaries and other cage birds. A preventive as well as a cure for all diseases. **Bottle 25c; postpaid 30c**

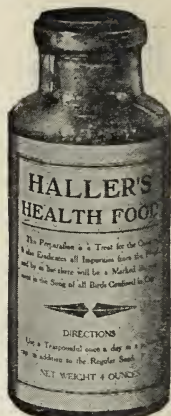
## HALLER'S HEALTH FOOD

Builds up and strengthens bird, promotes vitality and sound digestion. It eradicates all impurities from blood, sharpens appetite, causes a marked improvement in song.

## Btle 25c; postpaid 30c HALLER'S MAW AND POPPY SEED

Very healthful and nutritious for the following birds: Canaries, linnets, goldfinches, Bullfinches, chaffinches, siskins, nonpareils, indigos, shell parakeets, Java sparrows, nuns, weaver birds, nutmeg-finches, zebra finches, other small cage birds.

**Pkg. 25c; postpaid 30c**



## Haller's Superior Parrot Food

Haller's bird remedies are superior to al.

The only properly mixed food to feed parrots in order to keep them in good health and plumage. Full and valuable instructions in each box on the care of parrots. **Bx 25c; postpaid 30c.**



## HALLER'S NESTLING BABY CANARY FOOD

A large predigested baby food for baby canaries. Effective substitute for egg food being less expensive and easily prepared. Not only a valuable tonic mixture, but flesh and bone maker, keeps the birds in fine health and produces robustness and size. More natural food being more digestible and less heating than eggs while its natural feeding values are greater. **Pkg 15c; postpaid 20c**



## HALLER'S DUTCH SONG RESTORER

We are more than proud of this preparation and every one who has used it never fail to compliment it. Adapted to birds who have lost their voice through feathering, asthma, or cold—their condition being weak, their song will not return without the use of this tonic and regulator. **Package 25c; postpaid 30c**

## HALLER'S SELECTED CRACKED BIRD HEMP AND PEPPERS

Effective remedy for canaries with run down condition, builds them up, promotes digestion, renews appetite. **Pkg. 10c; pp. 15c**

**ASK FOR FREE BIRD BOOK**

# JUSTRITE PRODUCTS FOR BIRDS, FISH, ETC.

We feature and recommend scientifically prepared Justrite Pet Foods and remedies for pets



## JUSTRITE IMPORTED BIRD SEED

In spout can—fresh, super-cleaned

A full pound package of fresh, imported super-cleaned canary and rape seed. Packed to fill a demand created by fanciers, who know results and economy obtained with these seeds, and who will not use the cheaper seed mixtures commonly packed. Each 25c; postpaid 30c

## JUSTRITE BIRD GRAVEL IN METAL SPOUT CAN

Washed, Screened, containing Bird Charcoal and Calcium Carbonate, a Scientific Mixture

Bird Gravel is to birds what teeth are to people. Keep your birds healthy by feeding Justrite clean, sharp bird gravel, containing calcium carbonate, bird charcoal, a scientific mixture to prepare food digestion. No possible chance of birds contracting any disease from washed and screened Justrite Bird Gravel. Will not cake on feet. Ea. 15c; postpaid 20c



## JUSTRITE SONG RESTORER

For loss of song due to either cold, hoarseness, asthma or moulting. A preventive against all diseases common to canaries and seed-eating birds.

Price: Can 25c; postpaid 30c

## JUSTRITE HONEY ROLL—It's Toasted"

A Food-Tonic for Canaries

A combination of selected, wholesome and beneficial ingredients, including pure honey, relished by all canaries. Does not contain glucose or vegetable glue which cause most of the intestinal disorders. Wholesomeness made possible with our toasting process. Will not fall apart or become sticky in hot or damp weather. Furnished with both string and metal holder for fastening in cage. Trims bill, aids digestion, a food, a tonic and a real treat. Price 15c; 2 for 25c; pp. 30c

## JUSTRITE MOLTING FOOD—For all cage birds

Guaranteed to aid birds in getting over molt, quickly and normally restoring fine, beautiful feathers without injuring health or song of canary. Ea. 20c; pp. 25c.



## COMPLETE PRICE LIST OF JUSTRITE PRODUCTS

### SEEDS AND GRAVEL

- Justrite Wild Grass Seed, in spouted can. Price each 20c; postpaid 25c.  
 Justrite Bird Grit, in spouted can. Price, each 15c; postpaid 20c.  
 Justrite Love Bird Seed, in spouted can. Price each 25c; postpaid 30c.  
 Justrite Parrot Food with Polly Crackers. Price each 30c; postpaid 35c.  
 Justrite Tri-one Gravel Paper, 9-in. circles, 10-in. circles, 11-in. circles, 12-in. circles, 7x9 oblong, 7½x10 oblong, 9x11 oblong, 8½x11¼ oblong, 10x10 square. 12 shts. 25; postpaid 30c

### FOODS

- Justrite Song Restorer (friction top can). Price each 25c; postpaid 30c.  
 Justrite Vitamine Health Food (6-oz. bottle) Price each 25c; postpaid 30c.  
 Justrite Moulting Food (friction top can). Price each 20c; postpaid 25c.  
 Justrite Color and Pepper Food (friction top can). Price each 25c; postpaid 30c.  
 Justrite Egg and Nestling Food with Cod Liver Oil. Price each 20c; postpaid 25c.

### TONICS—LIQUID

- Justrite Bird Tonic with Medicine Dropper. Price each 35c; postpaid 40c.  
 Justrite Bird Bitters with Medicine Dropper. Price each 25c; postpaid 30c.  
 Justrite Iron Tonic with Medicine Dropper. Price each 25c; postpaid 30c.  
 Justrite Parrot Tonic with Medicine Dropper. Price each 35c; postpaid 40c.

### LICE REMEDIES

- Justrite Lice Powder (shaker top can). Price each 15c; postpaid 20c.  
 Justrite Cage Cleaner. Price each 35c; postpaid 40c.

- Justrite Bird Wash. Price 25c; postpaid 30c  
 Justrite Lice Destroyer Kits. Price each 65c; postpaid 75c.

### JUSTRITE CUTTLESTONE

- With metal holders, in Glassine envelopes  
 No. 1—4 to 6 inch, selected, neatly finished. Price each 10c.  
 No. 2—4 to 6 inch, selected, unfinished. Price 2 for 15c  
 No. 3—2½ to 3½ inch, selected, unfinished. Price each 5c

### MISCELLANEOUS

- |  | Each |
|--|------|
| Justrite Balm for Baldness, Camel Hair Brush       | 25c  |
| Justrite Bird Jelly                                | 25c  |
| Justrite Feather Pulling Remedy                    | 25c  |
| Justrite Bird Salve                                | 15c  |
| Justrite Bird Nesting, brown                       | 10c  |
| Justrite Bird Nesting, white                       | 10c  |
| Justrite Flake Charcoal (friction top)             | 15c  |
| Justrite Crushed Oyster Shells (shaker top can)    | 10c  |
| <b>FISH FOODS—REMEDIES</b>                         |      |
| Justrite Natural Fish Food with shrimps            | 10c  |
| Justrite Tropical Fish Food                        | 15c  |
| Justrite Imported Pure Shrimp (not domestic)       | 15c  |
| Justrite Wafer Fish Food                           | 10c  |
| Justrite Baby Fish Food (fine or extra fine)       | 15c  |
| Justrite Fish Tonic (shaker top can)               | 15c  |
| Justrite White Fungus Remedy with Medicine Dropper | 35c  |
| Justrite Aquarium Cement (small)                   | 35c  |
| Justrite Aquarium Cement (large)                   | 75c  |
| Justrite Assorted Shells and Beans                 | 15c  |



NATURE'S FRIEND

# MAGIC

Song Restorer and General Health Food stands today on the highest scale of commerce for breeding and raising canaries. Thousands of breeders are successfully using it as it reduces mortality and imparts to both young and old birds, vitality, strength and vigor.

MAGIC IS NATURE'S food which is absolutely required and beneficial to all cage birds. It contains more food value and expensive ingredients than any song restorer ever placed on the market. MAGIC may be used as a regular diet, as well as a tonic for both young and old birds and for breeding or raising young birds. Full directions inside of box. **Price: Each 30c; postpaid 35c; Net weight 3½ ounces; 22½-oz. pkg. \$1.25; postpaid \$1.40.**

## Oregon's Best Roller Bird Seed

Our own special mixture for American, St. Andreasberg and Hartz Mountain canaries; especially prepared for singers. Contains no hemp, but correct proportions of highest quality re-cleaned canary, sweet rape, small golden millet and few other seeds to give health and "pep" to singers. No wonder thousands of canaries die annually from effects of common bird seeds put up by grocery and drug companies. It is generally old, musty or dusty, inferior seeds, not correctly mixed. Try a package of our Roller Seed and note the difference and also saving, even though it is a little higher in price. Sold only in sealed one-pound cartons. Large full pound cartons, with small envelope of bird sand and piece of cuttlebone. **Pound carton 30c; postpaid.**

**Bird Manna**—A combination of seeds, herbs, and roots that nature intended birds should

have. Food and medicine combined. A tonic and conditioner. Comes in half-round cakes to fasten on the cage wires. **Cake 15c; postpaid 20c; 2 for 35c.**

**Spratt's Cod Liver Oil Nestling Food**—A food for young birds. A substitute for boiled eggs. An excellent food for old birds for the moulting season. **Pkt. 25c, postpaid**

**Champion Seed Bells**—These are prepared from very desirable ingredients, made in the shape of a bell, and are a medicinal food, acting as a stimulant for the bird. The Champion Seed Bells are fitted with a little string, which can be slipped over the perch or hung from the cage. They are a very desirable addition to the bird's menu. A metal bell is attached to the bottom of the Seed Bell, and he will greatly enjoy playing with bell as eating the seed. **Each 15c; postpaid 17c.**

## BIRD, FISH FOOD AND SUPPLIES

### PARRAKEET LOVE BIRD SEED

For parakeets, love birds, finches, and linnets. Contains a very fine selection of thoroughly cleaned, fresh and correctly mixed seeds. Put up in neat boxes. **Pkt. 25c; postpaid 30c.**

### ANT EGGS

Are prepared for birds, turtles, tropical fish and goldfish. It is a rare treat for soft-billed and insect eating cage birds. **Pkt. 25c**

### BIRD BITTERS

Is not a tonic, but a wonderful medicine especially prepared for loss of song, weakness, molting or shedding feathers out of season, hard breathing, diarrhea and other diseases of cage birds. **25c; postpaid 30c.**

### CUTTLE BONE

This is a necessity that should be in every cage. Carefully selected, high-grade cuttle bone. **5c each**

### BIRD NESTING

A sanitary nesting that will prevent the canaries from picking out their feathers at breeding time. **10c each**

### TROPICAL FISH FOOD

A combination of carefully selected foods, containing many insects, etc., found in the native haunts of the fish, and of which they are very fond. Do not overfeed. Should be fed only once each day, morning preferred, and in only such quantities as the fish will consume. **10c each**

### CRYSTAL SAND

A thoroughly washed and cleaned white sand, free of the impurities of common river sand, and very good for birds and goldfish. **15c; postpaid 20c**

### FISH FOOD WAFERS

Genuine imported sheet wafers that have been used for many years as a fish food. They

should be fed only once each day and at a regular hour, and only such as they will eat. **Each 10c**

### CANARY HEALTH GRIT

Keeps your bird in good health and improves the plumage. **15c; postpaid 20c**

### ROLLER CANARY GRAVEL

This is a necessity for cleanliness and health, and is also a great aid to the birds as a digestive. **15c; postpaid 20c**

### BIRD CAGE SUPPLIES

All prices postpaid; 5c less if called for. **Cage Cups**—Open or closed tops, opal or plain glass. **Each 10c; 3 for 25c.**

**Square Cage Cups**—Or round cups. **25c.** **Tonic or Medicine Cup**—10c; 3 for 25c.

**Glass Bird Bath House**—\$1.00, or \$1.10 postpaid.

**Bathing Dishes**—Oblong. **25c and 30c.**

**Bird Nests**—Wire or willow. **15c.**

**Cage Springs**—Single light, **15c;** heavy **25c;** double **35c;** single with adjustable chain, **35c.**

**Cuttle Bone Holders**—15c; with bone **20c.**

**Wall Bracket Hooks**—Heavy nickel plated round wire. **10 in. 35c; 12 in. 40c.** Brass **5c** higher.

**Brass Bird Cage Stand**—Not mallable. Half circle **\$4.00;** full circle **\$5.00.**

**Parrot Cages**—Round \$4.25 to \$17.00; square \$9.00 to \$18.00. Prices based on size.

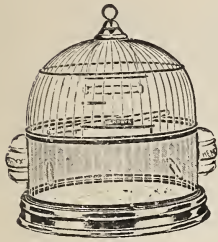
**Parrot Stands** with adjustable tray **\$15.00.**

### BIRD SEED

#### Selected—Re-cleaned

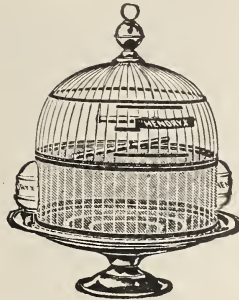
Canary Seed .....	Lb.	20c postpaid
Rape Seed .....	Lb.	20c postpaid
Hemp Seed .....	Lb.	20c postpaid
Flax Seed .....	Lb.	20c postpaid
Millet Seed .....	Lb.	20c postpaid
Sunflower Seed .....	Lb.	20c postpaid
Maw Seed .....	Lb.	50c postpaid

## "HENDRYX" BRASS CAGES AND STANDS



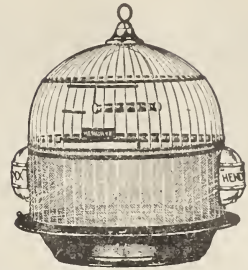
With brass wire guard, polished base. Complete as shown.

No.	Hght.	Price
1274-10 1/8-in. dia., 13 3/8-in.		\$3.50
1275-11 -in. dia. 13 3/4-in.		4.25
1276-11 3/4-in. dia. 15 1/4-in.		4.75



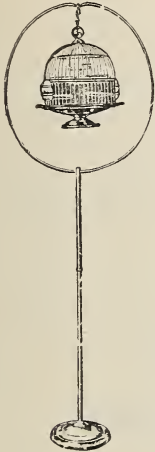
### With Extra Top Rail and Brass Wire Guard

No.	Dia.	Hght.	Price
274-10 1/8-in., 15 3/8-in.			\$4.00
275-11 -in. 15 5/8-in.			5.00
276-11 3/4-in. 17 1/4-in.			6.00



### Has Attachment for Tassel

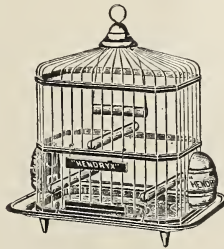
No.	Hght.	Price
2274-10 1/8-in. dia. 13 -in.		\$6.00
2275-11 -in. dia. 13 7/8-in.		7.50
2276-11 3/4-in. dia. 14 3/4-in.		8.00



### OVAL RING STAND

With brass tubing upright, solid arch. Polished brass. Base weighted. Height 5 feet, 6 inches.

No.	Each
80A—Polished .....	\$5.00
80Br2T—Bronze 2 tone ..	6.50



### IVORY FINISH CAGES "HENDRYX"

Ivory finish japanned cages, in all sizes. Very attractive, yet inexpensive.

No.	Hght.	Price
165-9 3/4 x 6 1/4 -in.	12 5/8	\$2.00
166-10 3/8 x 6 7/8 -in.	13 5/8	3.00
167-11 x 7 1/2 -in.	14	3.25
168-12 1/4 x 8 1/8 -in.	14 5/8	\$3.50



### CAGE STAND

An exceptionally attractive brass stand, polished brass tubing upright and solid arch. Weighted base. Height 5 1/2 feet.

No.	Price
31 Polished Gunmetal and Bronze, each.....	\$4.00
31—Polished Brass each .....	4.00

### ST. ANDREASBERG ROLLER

The finest singers among canaries, having only the soft, clear, musical notes that have made them leading favorites both in Europe and the United States. We secure these songsters only from the best imported European strains.

**Prices:** Good young singer \$7.50; selected singer \$10.00; trainer \$15.00; females \$2.00.

### GOOD AMERICAN CANARIES

Excellent singers of popular American type, in all colors from bright yellow to the green tones. **Prices:** Male singer \$5.00; females \$1.50.

Birds shipped by express only



### COVERED CUP

No.	Price
1907—Opal Glass, each..	15c
1904—Flint Glass, each..	15c

### CAGE SPRINGS

No. 160—Single, brass plated, postpaid, each 15c.  
Double, brass plated, postpaid, each 25c.

### BATH DISHES

Opal or plain, 25c and 30c ea.

### SWINGING CAGE HOOK

Brass plated, 12-in. long, ea 25c

## REFERENCE TABLES

Quantity of seeds to produce a given number of plants or to sow an acre.

## Vegetable Seeds

	Per acre		Per acre
Asparagus—1 oz. to 400 plants....	4 lbs.	Lettuce—1 oz. to 200 ft. drills....	3 lbs.
Beans, dwarf—1 lb. to 125 ft....	40 lbs.	Melon, Musk—1 oz. to 100 hills....	2 lbs.
Pole—1 lb. to 150 ft. drill....	35 lbs.	Water—1 oz. to 25 hills....	2 lbs.
Pole—1 lb. to 150 ft. drill....	35 lbs.	Okra—1 oz. to 100 ft. drill....	5 lbs.
Field—1 lb. to 200 ft. drill....	35 to 45 lbs.	Onion Seed—1 oz. to 150 ft. drill..	3 lbs.
Lima—1 lb. to 75 hills....	35 lbs.	For sets .....	50 lbs.
Beet, Table—1 oz. to 60 ft. drill..	6 lbs.	Onion Sets—1 lb. to 35 ft. drill..	200 lbs.
Mangel—1 oz. to 75 ft. drill....	5 lbs.	Parsnips—1 oz. to 200 ft. drill....	3 lbs.
Broccoli—1 oz. to 3000 plants....	3 ozs.	Parsley—1 oz. to 350 ft. drill....	2 lbs.
Br. Sprouts—1 oz. to 3000 plants..	3 ozs.	Peas, dwarf—1 lb. to 125 ft. drill..	75 lbs.
Cabbage—1 oz. to 3000 plants....	4 ozs.	Tall—1 lb. to 150 ft. drill....	60 lbs.
Carrot—1 oz. to 150 ft. drill....	2½ lbs.	Pepper—1 oz. to 2000 plants....	4 ozs.
Cauliflower—1 oz. to 4000 plants..	3 ozs.	Potatoes—15 lbs. to 100-ft. row....	800 to 1000 lbs.
Celery—1 oz. to 5000 plants....	4 ozs.	Pumpkin—1 oz. to 25 hills....	3 to 4 lbs.
Chicory—1 oz. to 100 ft. drill....	5 lbs.	Radish—1 oz. to 100 ft. drill....	10 lbs.
Corn, Sweet—1 lb. to 150 ft. drill	15 lbs.	Rutabaga—1 oz. to 250 ft. drill....	1 to 2 lbs.
Sweet—1 lb. to 160 hills....	12 lbs.	Salsify—1 oz. to 100 ft. drill....	8 lbs.
Corn Salad—1 oz. to 50 ft. drill..	5 lbs.	Spinach—1 oz. to 100 ft. drill....	8 lbs.
Cucumber—1 oz. to 100 hills....	2 lbs.	Squash, Summer—1 oz. to 30 hills..	3 lbs.
Endive—1 oz. to 300 ft. drill....	2 lbs.	Winter—1 oz. to 25 hills....	3 lbs.
Horseradish Roots .....	10 to 15 M.	Tomatoes—1 oz. to 3000 plants..	2 to 3 ozs.
Kale, Table—1 oz. to 3000 plants..	1 lb.	Tobacco—1 oz. to 4000 plants....	
Stock—1 oz. to 300 ft. drill....	1 to 2 lbs.	Turnips—1 oz. to 250 ft. drill....	1 to 2 lbs.
Kohl-Rabi—1 oz. to 300 ft. drill..	2 lbs.		
Leek—1 oz. to 200 ft. drill....	3 lbs.		

## Field, Farm, Grass and Clover Seeds

	Quantity per acre		Quantity per acre
Alfalfa .....	12 to 15 lbs.	Rye Grass—for lawn .....	100 lbs.
Artichokes .....	400 to 600 lbs.	Sudan—drills .....	3 to 5 lbs.
Barley—75 lbs. drills .....	broadcast 100 lbs.	Broadcast .....	16 to 20 lbs.
Buckwheat—35 lbs. drills..	broadcast 50 lbs.	Kaffir Corn—drills .....	6 to 10 lbs.
Cheat .....	75 to 100 lbs.	Millet .....	20 to 30 lbs.
Clover—Alsylke and White ..	6 to 8 lbs.	Oats—for seed .....	75 to 100 lbs.
White for lawn.....	1 lb. to 20 ft. square	For hay .....	100 lbs.
Crimson ..	15 to 20 lbs.	Potatoes—60 lbs. per bushel..	15 to 18 bu.
Red .....	10 to 12 lbs.	Peas, Field—100 lbs. or 80 lbs. with 35 lbs. oats	
Sweet .....	15 to 20 lbs.	Rape—3 lbs. drill .....	broadcast 5 lbs.
Corn, Field—Hills .....	10 to 12 lbs.	Rye—for grain .....	60 to 75 lbs.
For fodder, drills .....	50 lbs.	For turning under .....	100 lbs.
Flax .....	35 to 45 lbs.	Speltz or Emmer .....	80 lbs.
Grass, Kentucky Blue—Pasture	20 to 30 lbs.	Sugar Cane .....	10 to 12 lbs.
Kentucky Blue—for lawns 1 lb.	to 15 ft. sq.	Sunflower .....	5 to 7 lbs.
Mixed Lawn .....	1 lb. to 15 ft. sq.	Timothy .....	10 to 12 lbs.
Red Top—Hulled, solid seed	8 to 10 lbs.	Vetches .. 80 lbs. or 60 lbs. with 40 lbs. Oats	
Orchard .....	25 to 30 lbs.	Vetch, Hairy or Sand.....	30 lbs.
Brome Grass .....	20 to 30 lbs.	Wheat .....	90 to 120 lbs.
Rye Grass—for pasture .....	20 to 30 lbs.		

## Suitable Distance for Planting Trees and Plants

NOTE—Depending on method of cultivation. In planting in the home garden for hand cultivation you can set plants or trees closer.

Apples, standard .....	25 to 35 feet	Raspberries .....	3 by 6 feet
Apples, dwarf .....	10 to 12 feet	Strawberries, in hills .....	2 by 3 feet
Pears, standard .....	20 to 25 feet	Strawberries, matted rows ..	2½ by 4 feet
Pears, dwarf .....	10 feet	Asparagus, in beds .....	1 by 1½ feet
Peaches and Apricots ..	18 to 22 feet	Asparagus, in field .....	1 by 4 feet
Cherries, sweet .....	30 to 35 feet	Rhubarb .....	3 by 6 feet
Cherries, sour .....	18 to 22 feet	Logans and Cory Blackberries—	
Plums and Prunes .....	20 to 25 feet	Rows .....	6 to 9 ft. apart
Quinces .....	15 to 18 feet	Plants in the row .....	6 to 10 ft. apart
Walnuts .....	40 to 50 feet	Grapes—	
Currants .....	3 by 6 feet	Rows .....	6 to 9 ft. apart
Gooseberries .....	4 by 6 feet	Plants in the row .....	6 to 10 ft. apart

## Number of Trees or Plants on an Acre

1 by 2 feet .....	21,780	3 by 5 feet.....	2,904	12 by 12 feet.....	802
1 by 3 feet .....	14,520	3 by 6 feet.....	2,420	15 by 15 feet.....	193
1 by 4 feet .....	10,890	4 by 4 feet.....	2,722	16 by 16 feet.....	170
1½ by 2 feet .....	14,520	4 by 6 feet.....	1,815	18 by 18 feet.....	135
1½ by 3 feet .....	9,680	6 by 8 feet.....	907	20 by 20 feet.....	109
2 by 3 feet .....	7,260	6 by 6 feet.....	1,210	25 by 25 feet.....	70
2 by 4 feet .....	5,445	8 by 8 feet.....	680	30 by 30 feet.....	48
3 by 4 feet .....	3,630	10 by 10 feet.....	430	40 by 40 feet.....	27

RULE—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants to the acre.

NUMBER OF PLANTS PER ACRE AT VARIOUS DISTANCES

Distance Inches	Plants	Distance Inches	Plants	Distance Feet	Plants	Distance Feet	Plants
1x 1	6,272,640	10x48	12,068	4x 5	2,178	9x10	484
1x 3	2,090,880	15x15	27,878	4x 6	1,815	9x11	440
1x 4	1,568,160	15x30	13,939	4x 7	1,556	9x12	403
1x 5	1,254,528	15x36	11,616	5x 5	1,742	10x10	435
2x 2	1,568,160	18x36	9,680	5x 6	1,452	10x12	363
2x 3	1,045,440	18x48	7,260	5x 7	1,244	10x15	290
2x 4	784,080			5x 8	1,089	10x18	342
		Feet					
2x 5	627,264			5x 9	968	10x20	217
3x 3	696,960	1x 1	43,560	6x 9	1,210	12x12	302
3x 4	522,720	1x 2	21,780	6x 7	1,037	12x15	242
3x 5	418,176	1x 3	14,520	6x 8	907	12x20	181
4x 4	392,040	1x 4	10,890	6x 9	806	15x15	193
4x 5	313,632	1x 5	8,712	6x10	726	15x18	161
5x 5	250,905	2x 2	10,890	7x 7	888	15x20	145
6x 6	174,240	2x 3	7,260	7x 8	777	18x18	134
7x 7	128,012	2x 4	5,445	7x 9	691	18x20	121
8x 8	98,010	2x 5	4,356	7x10	622	18x24	100
9x 9	77,440	3x 3	4,840	8x 8	680	20x20	108
10x10	62,726	3x 4	3,630	8x 9	605	20x24	90
10x20	31,363	3x 5	2,904	8x10	544	20x30	72
10x24	26,136	3x 6	2,420	8x11	495	30x24	60
10x30	20,908	3x 7	2,074	8x12	453	30x30	48
10x36	16,424	4x 4	2,722	9x 9	537	30x36	40

NUMBER OF PLANTS TO ACRE

Set regular distance apart		No. Plants	No. Plants
Distance Apart			
1 ft. by 6 in.		87,120	
2 ft. by 6 in.		43,560	
2 ft. by 12 in.		26,780	
2½ ft. by 12 in.		17,420	
2½ ft. by 18 in.		17,420	
2½ ft. by 18 in.		11,616	
2½ ft. by 2 ft.		8,712	
3 ft. by 1 ft.		14,520	
3 ft. by 1½ ft.		9,924	
3 ft. by 2 ft.		7,260	
3 ft. by 3 ft.		4,840	
4 ft. by 1 ft.		10,890	
4 ft. by 2 ft.		5,445	
4 ft. by 3 ft.		3,630	
4 ft. by 4 ft.		2,722	
5 ft. by 1 ft.		8,712	
5 ft. by 2 ft.		4,356	
5 ft. by 3 ft.		3,904	
5 ft. by 4 ft.		2,178	
5 ft. by 5 ft.		1,742	
6 ft. by 3 ft.		2,420	
6 ft. by 4 ft.		1,815	
6 ft. by 6 ft.		1,200	
Distance Apart			No. Plants
7 ft. by 7 ft.			888
8 ft. by 8 ft.			680
9 ft. by 9 ft.			537
10 ft. by 10 ft.			435
11 ft. by 11 ft.			360
12 ft. by 12 ft.			302
14 ft. by 14 ft.			222
15 ft. by 15 ft.			193
16 ft. by 16 ft.			170
17 ft. by 17 ft.			150
18 ft. by 18 ft.			134
19 ft. by 19 ft.			120
20 ft. by 20 ft.			108
25 ft. by 25 ft.			69
30 ft. by 30 ft.			48
33 ft. by 33 ft.			40
40 ft. by 40 ft.			27
50 ft. by 50 ft.			12
60 ft. by 60 ft.			17
66 ft. by 66 ft.			10

Rule—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and product will be the number of square feet for each plant or hill; which divided into the number of square feet (43,560), will give the number of plants to the acre.

MATURITY TABLE

	No. of Days		No. of Days
Beans	40 to 90	Mangel Wurzels	140 to 150
Beets	50 to 100	Okra	90 to 100
Cabbages	80 to 120	Onions for green	60 to 70
Cauliflower	100 to 120	Onions for storage	120 to 160
Carrots	60 to 100	Parsnips	120 to 140
Celery	120 to 140	Peas	50 to 100
Sweet Corn, table use	65 to 80	Peppers	120 to 140
Cucumbers	45 to 60	Pumpkins	100 to 120
Egg Plants	140 to 150	Salsify	120 to 160
Endives	50 to 70	Spinach	30 to 40
Kale	100 to 130	Squash, Summer	55 to 60
Kohl Rabi	80 to 90	Squash, Winter	100 to 125
Lettuce	40 to 65	Tomatoes	90 to 110
Melons	75 to 90	Turnips	45 to 90



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